FILE NOTATIONS		·	
Entered in NID File .		Checked by Chief	*******
Entered On S R Sheet .	*****	Copy NID to Field Office	*********
Location Map Pinned .	***************************************	Approval Letter	
Card Indexed		Disapproval Letter	***************************************
IWR for State or Fee Land			
COMPLETION DATA: Date Well Completed		Location Inspected	
owww	TA	Bond released State of Fee Land	,
	LOGS FIL	.ED	
Driller's Log			
Electric Logs (No.)	f15	,	
	•	;R GR-N N	dicro
Lat Mi	-LSonic.	Others	***************************************

(SUBMIT IN TRIPLICATE)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Land O	mc. Palt Lake
Lease l	City Utah • 045051(a)
Unit	Lease

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	.X	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING.
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

(Field)	(County or Subdivision)	(State or Territe	ory)
Clay Dasin	Pargett	Utah	
(¼ Sec. and Sec. No.)	(Twp.) (Range)	(Meridian)	
NE NE Sec. 21	3 N. 24 E.	Salt Lake	
Well No2 is loca	ted 1120 ft. from ${f N race S}$ line a	and 000 ft. from $\frac{E}{W}$ line	of sec. 21
i. D. murphy #2	nock Spr	ings, "yo June	28 th, 19 34

The elevation of the derrick floor above sea level is 6485 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

We would like permission to drill this well with rotary tools to gas production which we would expect to find at approximately 5000 feet.

It would be our intention to set a condtuctor string of 12-1/2" casing at 200 feet and cement from top to bottom, then a string of 8-5/8" - 32π - API Seamless casing at 5500 feet and a string of 6-5/8" - 26π - API Seamless casing at 6000 feet.

I understand that this plan of work n	nust receive approval in writing by t	the Geological Survey l	before operations may be co	mmenced.
Company MOUNTAIN FU	HI SUPPLY CO.			
Вож 878				
Address Rock Spring	s, "yo.			
Approved July 13, 19	34 (see altached	form)		
r. D. Ferg	uson	By C.	n. metzler	
Petroleum	angineer	<i>Dy</i>		
Caspery	roming	Title Vice	Pres. ~ Gen.	Mer.
		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	***************************************	

U. S. GOVERNMENT PRINTING OFFICE 16-8487-3

Form 9-331a (March 1942)

(SUBMIT IN TRIPLICATE)

UNITED STATES

DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Land Office	. Salt Lake
Lease No	045051-A
Unit	L

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING.	SUPPLEMENTARY WELL HISTORY
Notice of Vementing Conductor	
Notice of Gementing Gonductor	Spring XX
(Indicate above by Check Mark N	NATURE OF REPORT, NOTICE, OR OTHER DATA)
A. D. murphy #2	For by Some man street Amount 6 10 74
	Rock Springs, "yo. August 6 , 1934
	$\begin{bmatrix} N \\ X \\ X \end{bmatrix} \text{ line and } \underbrace{660}_{600} \text{ ft. from } \begin{bmatrix} E \\ X \\ X \end{bmatrix} \text{ line of sec. } \underbrace{21}_{200}$
(½ Sec. and Sec. No.) (Twp.)	(Range) (Meridian)
NET NET Sec. 21 3 H. 24 4 (K Sec. and Sec. No.) (Twp.) Clay Pasin Daggett	Utah
(Field) (County of	r Subdivision) (State or Territory)
The elevation of the derrick floor above sea leve	el is <u>6485</u> ft.
DETAIL	LS OF WORK
	s, weights, and lengths of proposed casings; indicate mudding jobs, cement- her important proposed work)
A condustor string of casing was landed and cemented of	f 15-1/2" - 70# - 10 Thread DBX on August 3, 1934 as follows:
150 sacks of *deal Portland Ceme	pany. Baker casing shoe used, spot
Kindly advise this office of tesshut off of water if any.	sts made for placement of cement and
I understand that this plan of work must receive approval in w	riting by the Geological Survey before operations may be commenced.
Company HOUHTAIN PURI SUPPLY C	30
Address Rock Springs, Tyoming	
Approved August 13, 1934	
	By C. R. Hetzler
Digthiat Tania	Dy
District Engineer	Title Vice tree & Con warner
Casper, "yoming"	Title Vice Fres. & Gen. manage
U. S. GOVERNMENT P	

Budget Bureau No. 42-R358.1. Approval expires 11-30-49.

(SUBMIT IN TRIPLICATE)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Land Office	Salt	Lake
Lease No	04501-	-A
Unit	L	

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	
Subsequent Amort of Cementing	
·	NATURE OF REPORT, NOTICE, OR OTHER DATA)
D. Murphy #2	August 18, 1934 , 19, 19
Vell No. 2 is located 1120 ft. from	m $\begin{cases} N \\ Sx \\ X \end{cases}$ line and $\frac{660}{660}$ ft. from $\begin{cases} E \\ XX \\ X \end{cases}$ line of sec. 2
NET NET Sec. 21 3 N 24 (K Sec. and Sec. No.) (Twp.)	(Hange) (Meridian)
Clay Basin Daggett	
(Field) (County of	r Subdivision) (State or Territory)
he elevation of the derrick floor above sea lev	rel is <u>6485</u> ft.
DETAIL	LS OF WORK
State names of and expected depths to objective sands; show size	LS OF WORK s, weights, and lengths of proposed casings; indicate mudding jobs, cementer important proposed work)
State names of and expected depths to objective sands; show size ing points, and all of	s, weights, and lengths of proposed casings; indicate mudding jobs, cem
The approved notice regarding placement of cement. Sufficient cement was bring the cement back up arou	eturned to us requested information out around this string of cosing and the casing to the surface.
The approved notice regarding placement of cement. Sufficient cement was bring the cement back up arou	eturned to us requested information out around this string of cosing and the casing to the surface.
The approved notice regarding placement of cement. Sufficient cement was bring the cement back up arou	eturned to us requested information out around this string of cosing and the casing to the surface.
The approved notice regarding placement of cement. Sufficient cement was bring the cement back up arou	eturned to us requested information out around this string of cosing and the casing to the surface.
The approved notice regarding placement of cement. Sufficient cement was bring the cement back up aroust for water shutoff was made.	eturned to us requested information out around this string of cesing and the casing to the surface. No
The approved notice regarding placement of cement. Sufficient cement was bring the cement back up aroust for water shutoff was made. I understand that this plan of work must receive approval in a superstand that the superstan	eturned to us requested information out around this string of cosing and the casing to the surface. No
The approved notice regarding placement of cement. Sufficient cement was bring the cement back up aroust for water shutoff was made. I understand that this plan of work must receive approval in a company MOUNTAIN FUEL SUPPLY	eturned to us requested information out around this string of cesing and the casing to the surface. No
The approved notice regarding placement of cement. Sufficient cement was bring the cement back up aroust for water shutoff was made. I understand that this plan of work must receive approval in a company. MOUNTAIN FUEL SUPPLY	eturned to us requested information out around this string of cesing and the casing to the surface. No
The approved notice regarding placement of cement. Sufficient cement was bring the cement back up aroust for water shutoff was made. I understand that this plan of work must receive approval in a company MOUNTAIN FUEL SUPPLY ddress hoved october 25 19.4	eturned to us requested information out around this string of cosing and the casing to the surface. No
The approved notice regarding placement of cement. Sufficient cement was bring the cement back up aroust for water shutoff was made. I understand that this plan of work must receive approval in a company MOUNTAIN FUEL SUPPLY ddress how a company or oved October 25 19.4	eturned to us requested information out around this string of cosing and the casing to the surface. No
The approved notice regarding placement of cement. Sufficient cement was bring the cement back up aroust for water shutoff was made. I understand that this plan of work must receive approval in a second size of a second size	eturned to us requested information out around this string of cesing and the casing to the surface. No

U. S. GOVERNMENT PRINTING OFFICE 16-8437-3

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(SUBMIT IN TRIPLICATE)

· UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Budget Bureau No. 42-R358.1. Approval expires 11-30-49.					
Land Office.	Salt Take				
Lease No	045051-A				
I imie	L				

SUNDRY NOTICES AND REPORTS ON WELLS

							 1	
NOTICE OF INTE	NTION TO DRILL		SUBSEQUEN	T REPORT OF WA	TER SHUT-OFF			
NOTICE OF INTE	NTION TO CHANGE PLANS	S	SUBSEQUEN	T REPORT OF SH	OOTING OR ACIDIZ	ING		
NOTICE OF INTE	NTION TO TEST WATER S	HUT-OFF	SUBSEQUEN	IT REPORT OF AL	TERING CASING			
NOTICE OF INTE	NTION TO RE-DRILL OR F	REPAIR WELL	SUBSEQUEN	IT REPORT OF RE	DRILLING OR REPA	.IR		
NOTICE OF INTE	NTION TO SHOOT OR ACI	DIZE	SUBSEQUEN	IT REPORT OF AB	ANDONMENT			
NOTICE OF INTE	NTION TO PULL OR ALTER	R CASING	SUPPLEMEN	ITARY WELL HIST	ORY			
	NTION TO ABANDON WELL							
Notice o	of Latention	to Cement 8	3#5/8 "	Jasi ng			XX	
	(INDICATE AB	BOVE BY CHECK MARK NA	TURE OF REPO	RT, NOTICE, OR O	THER DATA)			
k.D. Murph	ny dell #2	Ì	tock Sp	cings, W	yo Oct	<u>. 6th</u> ,	19 <u>34</u>	
Well No	is locate	d 1120 ft. from	$\mathbb{S}_{\mathbb{S}}^{[N]}$ line a	nd <u>660</u> ft	. from E lin	e of sec.	21	
NEZ Naj k	ec. 21	3 N. 24 E.	•					
	nd 800. No.)		Range)	(Merid	·			
Clay sasin	1	Daggett			Utah			
(F	'ield)	(County or	Subdivision)		(State or Ter	ritory)		
The elevation	of the derrick flo	or above sea level	l is 648	5 ft.			-	
		DETAIL:	s of wo	RK				
(State names of ar	nd expected depths to obj	jective sands; show sizes,	weights, and l	engths of propose	d casings; indicate	mudding job	s, cement-	
		ing points, and all other	er important]	roposed work)		•		
denth a str	e encountered n of 5627 fee ing of 8-5/8 op of this se	et. "e woul 8" - 32# and	ld like l 36# -	permissi API sea	ion t <mark>o c</mark> en mless cas:	ment ing		
	Kindly advi	ise this off	fice as	to when	the well	will)	be tes	ted
I understand t	hat this plan of work mus	st receive approval in wr	riting by the G	eological Survey	before operations r	nay be comn	aenced.	
Company	IOUNTAIN EURI	L SUPPLY CO.	L	•	··	# # # # # # # # #####################		
pproved '	ock Oprings, ctober 12, 1	1934	•					
Ž.	· D. Fergus	<u>o.a</u>		Ву	0, R. 11	etzler		
1	District Engi	ineer						
		12 5 7 5 6 4 12 4 15 15 15 4 4 17 18 18 18 18 18 18 18 18 18 18 18 18 18		litleV1.C	ع -rres. ه	Gen.	mor.	
		U. S. GOVERNMENT PA	RINTING OFFICE]	6-64 37-3				

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(SUBMIT IN TRIPLICATE)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Approvat expites 11-30-49.						
Land Office	Salt -ake					
Lease No.	045051-A					
Unit	т.					

Budget Bureau No. 42-R358.1.

SUNDRY I	NOTICES ANI	REPORT	S ON WELLS	
NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT	OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLA	NS	SUBSEQUENT REPORT	OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER	SHUT-OFF	SUBSEQUENT REPORT	OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OF	REPAIR WELL	SUBSEQUENT REPORT	OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR A	CIDIZE	SUBSEQUENT REPORT	OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR AL	TER CASING	SUPPLEMENTARY WELL	HISTORY	
NOTICE OF INTENTION TO ABANDON W	FII (
Notice of Gementin	g 8-5/8" casi	18		XX
(INDICATE	ABOVE BY CHECK MARK NATU	RE OF REPORT, NOTICE,	OR OTHER DATA)	
R. D. Murphy Well #	2 noc	k Springs,	"yo. Oct. 15,	19.34
Well No. 2 is located No. 182 Sec. 21 (Wilder and Bea. No.)	3 N.	24 E.	ft. from E line of	sec. 21
Clay Basin		rett	Utah	
(Field)	(County or Sub		(State or Territory)	
The elevation of the derrick f	oor above sea level i	s <u>6485</u> ft.		
	DETAILS	OF WORK		
(State names of and expected depths to o	bjective sands; show sizes, we ing points, and all other i	ights, and lengths of pr mportant proposed wo	oposed casings; indicate muddi rk)	ng jobs, cement-
Cement 8-5/cemented the	s" Casing" dat	ed October g of casing	in this well	
•				
I understand that this plan of work m	ust receive approval in writin	ng by the Geological Su	rvey before operations may be	commenced.
Company MOUNTAIN				
Address Rock opring proved October 19,	ngs, Wyoming 1934			
ಸ. ಖ. ಸ'e:	rguson	Ву	C. R. Hetzler	de de la vivida Agrigo applica de para y rea de mantenado españo de
Dist. Վոց				
Casper,	<u> </u>	Title_Vi	ce Pres. & Gen	. mgr.



R. D. MURPHY WELL #2 Sec. 21-3-24 Daggett County, Utah

77 Jts. 2256' 1" Gross, 2236' 5" Net, 8-5/8"-36 π 8 Thd. API Seamless 153 Jts. 3436' 1" " 3397'10" " 8-5/8"-32 π 10 Thd. " 230 Jts. 5602' 2" Gross 5634' 5" Net, Cemented at depth of 5627', 7' 3" below the derrick floor.

Baker whirler Cement Float Shoe used on bottom. Baker Float Collar used two joints from bottom. Shoe joint was 8-5/8" - 32# - 10-Thread Pational API Peamless casing 31 long. Second joint was 8-5/8" - 35# - 8-Thread Youngstown API Peamless casing 20' 6" long, with 10 thread on bottom and 8 thread on top. Baker Float Collar put on this joint. 79th joint was change joint from 8-thread to 10-thread, and was 8-5/8" - 32# casing 11' 5" long. First 7 joints spot welded above and below collars. Cemented by Perkins Cil Well Cementing Company with 632 sacks of Monolith cement.



OIL AND GAS DEVELOPMENT ON

THE PUBLIC DOMAIN

D. MURPHY WELL NO. 2

UNITED STATES

CC STRATIVE SUPERVISION WITH

OIL AND GAS DEVELOPMENT ON DEPARTMENTAL LEASES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Midwest, Wyoming.

December 14, 1934.

Mr. W. T. Nightingale, Mountain Fuel Supply Company, Rock Springs, Myoming.

Dear Sir:

Average porosities upon the core samples from Clay Basin, Well No. 2, were as follows;

Depth	Sand grain density	% of voids
5334	2.6231	2.0
5650	2.5549	14.9
5653-60	2.6147	12.9
6014	2.6332	11.7
6030	2.6022	14.1

Very truly yours,

C. A. Hauptman

Engineer-in-Charge.

OIL AND GAS DEVELOPMENT ON THE PUBLIC DOMAIN

UNITED STATES

DEPARTMENT OF THE INTERIOR

PERATIVE SUPERVISION WITH FICE OF INDIAN AFFAIRS

OIL AND GAS DEVELOPMENT ON DEPARTMENTAL LEASES

GEOLOGICAL SURVEY Casper, Wyoming

December 26, 1934.

Mr. W. T. Nightingale Mountain Fuel Supply Company Rock Springs, Wyoming

> Subject: Salt Lake 045051, Clay Basin, Utah

Dear Sir:

The following sand porosities were secured on samples from Clay Basin:

Depth	Sand Grain Density	Per Cent Voids
5334	2.6231	2.0
5650	2.5549	14.9
5653-60	2.6147	12.9
6014	2.6 <u>53</u> 2	11.7
6030	2.6022	14.1

The samples shown as 5334, 5650, 5652-60 were the large size core, 3-inch, and may be in error as to depth.

Very truly yours,

R. D. FERGUSON District Engineer

c o p y

Budget Bureau No. 42-R358.1. Approval expires 11-30-49.

(SUBMIT IN TRIPLICATE)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Land Office Salt Lake
Lease No. 045051-A
Unit

NOTICE OF INTENTION TO DRILL	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF WATER SHUT-OFF
	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO BE DOLL OF DEPLIE WELL	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING.	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	
utice of Intention to Resume الا	rilling Operations xx
(INDICATE ABOVE BY CHECK MARK NA	ATURE OF REPORT, NOTICE, OR OTHER DATA)
. D. Murphy Well #2 Ro	ck Springs, wyo. June 8, 1935
	$\begin{bmatrix} N \\ x \\ Sx \end{bmatrix}$ line and 60 ft. from $\begin{bmatrix} E \\ w \end{bmatrix}$ line of sec. 21
3 N. 24 3 N. 24	<u> </u>
	(Range) (Meridian)
lay Basin Daggett	Utah
(Field) (County or	Subdivision) (State or Territory)
It is our intention to respectations at this well June 10th secontinued in November 1934 at set on account of unfavorable we	h. Operations were a deoth of 6.030
I understand that this plan of work must receive approval in we	riting by the Geological Survey before operations may be assured.
	riting by the Geological Survey before operations may be commenced.
Company MOUNTALL FUEL SUPPLY CO	
ompany MOUNTAL, FUEL SUPPLY OC ************************************	<u>O.</u>
ompany MOUNTAL, FUEL SUPPLY OC ************************************	<u>O.</u>
ompany MOUNTAL FUEL SUPPLY OC ************************************	By C. n. "etzler
Company MOUNTAL, FUEL SUPPLY OC ************************************	<u>O.</u>

с о р у

Land Office Salt Lake

Budget Bureau No. 42-R358.1. Approval expires 11-30-49.

Lease	No.	- (J4	ට ්.	c	L	-
Lease	110.				-1		

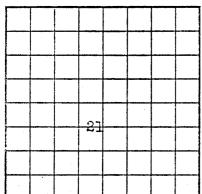
UNITED STATES DEPARTMENT OF THE INTERIOR

(SUBMIT IN TRIPLICATE)

GEOLOGICAL SURVEY

SUNDRY NOTICES A	AND REPORTS ON WELLS
NOTICE OF INTENTION TO DRILL NOTICE OF INTENTION TO CHANGE PLANS. NOTICE OF INTENTION TO TEST WATER SHUT-OFF. NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL NOTICE OF INTENTION TO SHOOT OR ACIDIZE. NOTICE OF INTENTION TO PULL OR ALTER CASING. NOTICE OF INTENTION TO ABANDON WELL NOTICE OF TOTAL OR TO THE PLANT OF THE PLANT	SUBSEQUENT REPORT OF ALTERING CASING
(INDICATE ABOVE BY CHECK MAR	K NATURE OF REPORT, NOTICE, OR OTHER DATA)
,	rom [N] line and 600 ft. from [E] line of sec. 21
NE : 00. 21 3 N (M Sec. and Sec. No.) (Twp.)	(Range) (Meridian)
	·
Clay Desin Darge (Field) (Count	y or Subdivision) (State or Territory)
	AILS OF WORK izes, weights, and lengths of proposed casings; indicate mudding jobs, cement- other important proposed work) ned sheet
Kindly disregard previous i back this well.	nstructions in regard to plugging
I understand that this plan of work must receive approval i Company Mountain duel upply	n writing by the Geological Survey before operations may be commenced.
Rock Springs, Wyoming	
Approved July 27, 1935	· · · · · · · · · · · · · · · · · · ·
ந. ப. Peguson Petr leum Pagineer	By C. π. "etzler Title Vice Pres. ω Gen. Manger
Casper, Jyo.	

U. S. GOVERNMENT PRINTING OFFICE 16-8437-3



U. S. LAND OFFICE SALT. Lake
SERIAL NUMBER 045051-A
LEASE OR PERMIT TO PROSPECT

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

			· ·							•
		. CORRECTL								
	=						Rock Sp			
Lessor	or Tract	щ.	urp. i.urp	hy	Fie	ld	ay Basin	State	atU	h
							Cot	-		
Locatio)n1120ft	$i \cdot \begin{Bmatrix} \frac{N}{N} \end{Bmatrix} \text{ of } \underline{N}$	Line and	<u>600</u> ft.	$\left\{\begin{array}{l} \frac{\partial X}{\partial X} \\ W. \end{array}\right\}$ of $\left\{\begin{array}{l} \frac{\partial X}{\partial X} \\ \frac{\partial X}{\partial X} \end{array}\right\}$. Line	of Sec.	21	Elevation	on 6485
						rect rec	cord of the w	ell and al	l work d	one thereon
o far a	is can be	determined	from all ave	ailable re	cords. Sie	ned	0. R.	Hetzl	er	
Data	Sente	mber 14	1935		~		Title			Gen.
			page is for th		ion of the	vell at :	above date.		Mg	T.
							drilling A	ugust	9,	19 35
,0111111	mood dii				AS SANDS		-			,
				. 1.7	Denote gas b	y G)	grand in			
lo. 1,	from 5	328	to 53	544 G			om 5724			
√o. 2,	from5	627	to 56	60 G	N	o. 5, fro	om	t	o . .	
lo. 3,	from5	677	to 56	90 G	N	o. 6, fro	om	t	o	
				4.5	ANT WAT		5.5			·
		•	to 60	37	N	o. 3, fro	om	t	0	
lo. 2,	from 65	21	to 66	43	N	o. 4, fro	om	t	0	
				CAS	SING REC	ORD				
Size	Weight per foot	Threads per inch	Make	Amount	Kind of sh	oe Cut	and pulled from	Perfor From-	To—	Purpose
1/2	70#·	10	DBX	1994	lo" Bak	er	e de la companya de l	A TOTAL		Conducto
		in a salab ji da sala								100000000000000000000000000000000000000
o/8.∃ 5/8™	32&36_	8 & 10	API	5625	7. Bak	er	en ki is primi			Producti Liner
1/2	ö.5	10		5671						Liner Producti
				•						
			MUDD	ING AN	D CEMEN	TING	RECORD	,		
Size casing	Where se		nber sacks of cem	ent	Method use	d	Mud gravity	Am	ount of mu	d used
-1/2	1991		150		Perki					,
-2/.8.	טאסט.	7 '	632		. Perki					
					AND AD			_		
	• .			and the second second			I	Depth set		
dapte	rs—Mate	rial			Size OTING RE		-			
Size	Sh	ell used	Explosive use		Quantity	Date	Depth shot	T	Depth clean	ed out
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		re used from		_	à .					
				feet 1		feet	, and from		feet to	feet
	ools were	used from	***************************************	,	DATES					
able t	ools were	used from	, 19		DATES Put	to proc	ducing	*****		, 19
able t	ools were	used from	, 19	rs was 🚅	DATES Put	to proc	ducing	h 9	% was oi	, 19

Rock pressure, lbs. per sq. in. 2220

FORMATION ASCORD—Continued

COPY

CONDENSATE FROM LAP, produced with gas from Dakota sands 5727-5760, Mountain Fuel Supply Co's "Robert Murphy #2", Section 21, 3-24, Clay Basin structure, Daggett County, Utah

THE OHIO OIL COMPANY

Robinson, Ill. September 14, 1935

Mr. John McFadyen The Ohio Oil Company Casper, Wyoming

Doar Sir:

The following analysis was made on sample of oil from the Robert D. Murphy Well #2, located in Section 21, Township 3 North, Range 24 East, in Clay Basin Field, Daggett County, Utah:

	Original Sample	Sample after run to 410 F. end point with Hempel Column.
Gravity Color Doctor Corrosion Octane No. Distillation	60/1 Yollow Swect Good 54.0	59/9 30 Swoot 54.0
IBP 10 20 30 40 50 60 70 80 90 EP Rec. Res. Loss	126 178 200 216 230 244 258 276 300 352 446 98	130 186 204 216 228 242 256 276 310 344 410 98

92% Overhead

7% Bottoms (Straw Gas 011)

1% Lons

Although the color is yellow and the end point 446, it is our opinion that this gasoline could be marketed, as is, as a third grade material. In the event the natural color is objectionable, dye could be added to give it a distinctive color or it could be filtered through fullers earth to a clear color of 25 or better.



Mr. John McFadyen - 2 - September 14, 1935
Casper, "yoming

You will note from the Hempel Column Distillation
that the lower and point namely 410 will wield approximately

that the lower end point, namely 410, will yield approximately 92% gasoline. In this event, however, it might be well to blond natural gasoline (Casinghead) in order to lower the initial and 10% points.

This gasoline is sweet before redistillation as well as after so in either case it would not be necessary to subject it to any chemical treatment.

Yours truly,

(Signed) R. E. Luton

REL:TS

CC: C. R. Hetzler

G. W. Uzzell

Mr. John McFadyen The Ohio Oil Company Casper, Wyoming

Dear Sir:

The following analysis was made on sample of oil from the Robert D. Murphy Well #2, located in Section 21, Township 3 North, Range 24 East, in Clay Basin Field, Daggett County, Utah:

	Original Sample	Sample after run to 410 F. end point with Hempel Column.
Gravity Color	60/1 Yellow	59/9 30
Doctor	Sweet	Sweet
Corrosion	Good	
Octane No.	54.0	54.0
Distillation		
IBP	126	130
10	178	186 mily 2004 186 mily 2004 1894
20	200	204
30	216	216
40	230	228
50	5 <u>7</u> 17	21,2
60	258	13. 14. 15. 12. 12. 12. 12. 13. 13. 13. 13. 13. 13. 13. 13. 13. 13
70	276	276
80	300 350	310
90 EP	352 446	410 410
Rec.	98 98	98
Res.	7	
Loss	1 · ·	
2000	•	and the control of th

92% Overhead

7% Bottoms (Straw Gas Oil)

1% Loss

Although the color is yellow and the end point 446, it is our opinion that this gasoline could be marketed, as is, as a

Mr. John McFadyen 9-14-35

third grade material. In the event the natural color is objectionable, dye could be added to give it a distinctive color or it could be filtered through fullers earth to a clear color of 25 or better.

You will note from the Hempel Column Distillation that the lower end point, namely 410, will yeild approximately 52% gasoline. In this event, however, it might be well to blend natural gasoline (Casinghead) in order to lower the initial end 10% points.

This gasoline is sweet before redistillation as well as after so in either case it would not be necessary to subject it to any chemical treatment.

Yours truly,

REL:TS CC: C. R. Hetzler

G. W. Uzzell

GAS ANALYSIS

Condition of sam	ple	Labora	atory No	36-(4
Analysis by	J. G. Crawford	at Midwest.	Wyoming	Date .	9-16-39
		r analysis			
	Carbon dioxide	(co ₂)	0.0%		• : • • •
4. W.	0xygen (0 ₂)	• • • • • • • • • • • • •	0.3%		
	Methane $(CH_{j_{\downarrow}})$		72.5%	·	
	Ethane (C2H6) a	and higher	13.0%		
	Nitrogen (N2) 1	y difference .	14.2%		
	Specific Gravit	y (Calculated)	679		
	Specific Gravit	y (Observed)	689		
	Calculated Gross B. T. I and 15.025 lbs.			530	
	HYDROGEN SULPHIN	DE BY TUTWILLER 1	SETHOD .	•	
	Grains of hydrogen sulph at 60° F. and 1	nide per 100 cu. 5.025 lbs. per	. it. of gas sq. in	• •	
	Percentage of hydrogen a 15.025 lbs. per HEATING VALUE BY SA	sq. in	• • • • • • • • • • •		
B. T. U. per cu. mined by Sar	ft. at 60° F. and 15.025 gent gas calorimeter:	lbs. per sq. i	inch. pressur	e as det	.er-
		1132	- 1021 01	יבו כיני	

Remarks and conclusions:

R. D. MURPHY #2 Unit Z

Core Analysis by V. B. Gras Sample Analysis 5562-5534 by V. B. Gras

Core #1 5294-5311.5; rec. 17.5!

9.0' - Shale, black, with gray sandstone streaks

1.0' - Shale, black, with slickensides at base

5.0' - Sandstone, fine-grained, hard, coherent, crossbedded, with black shale particles and occasional streaks of black shale up to 3" through.

1.5' - Shale, sandy, dark gray

1.0' - Sandstone, as above.

Core #2 5311.5 - 5326; rec. 14.5!

- 2.5' Shale, sandy, interbedded black and gray, with streaks of sandstone, light gray, fine-grained, hard.
- 12.0' Sandstone, fine-grained, hard, coherent, porous, cross-bedded, light gray with black grains and occasional black shale partings, streaks and particles.

Core #3 5326 - 5344; rec. 18'

1.0' - Sandstone as above

1.0' - Shale, sandy, black, hard

16.0' - Sandstone, medium-grained, hard, coherent, very porous, light gray with black grains and coal partings.

Core #4 5344-5349; rec. 5!

1.5' - Shale, sandy in part, black, hard, with streaks of sandstone, light gray, medium-grained.

4.5' - Sandstone, medium-grained, hard, incoherent, light gray with black grains and black carbonaceous shale partings and some coal streaks.

Core #5 5349-5357; rec. 8:

1.0' - Shale, black, hard, with streaks of sandstone, light gray; some coal streaks.

7.0' - Sandstone, medium-grained, hard, coherent, light gray with black carbonaceous shale partings.

Core #6 5357-5361; rec. 3'

1.0' - Sandstone as above

1.5' - Sandstone as above interbedded with shale, black, carbonaceous; bedding at high angle; shale highly slickensided.

0.5' - Sandstone, coarse-grained, hard, light gray, with inclusions of gray shale up to 1/2" across and inclusions of coal.



R. D. Murphy #2

Core #7 5361-5363; rec. 1.5!

1.5' - Interbedded thin beds of shale, black, carbon-aceous, and sandstone, light gray

Core #11 5366-5382; rec. 12'

12.01 - Interbedded shale, sandy, black, cross-bedded, and shale, sandy, dark gray

Core #12 5382-5400; rec. 18'

4.0' - Shale, sandy, hard, black

1.5' - Sandstone, fine-grained, hard, light gray

12.5' - Shale, silty, hard, black

Core #13 5400-5418; rec. 18'

12.0' - Shale, silty, black, hard

6.01 - Shale, black, hard

Core #14 5418-5436; rec. 18'

4.5' - Shale, black, hard

0.5' - Shale, black, hard (fragments)

3.0 - Shale, black, hard

1.0' - Bentonite, sandy, light gray

9.0' - Shale, hard, black

Core #15 5436-5434; rec. 18'

7.0! - Shale, black, hard

4.5' - Bentonite, silty, light gray

5.5' - Shale, black, hard

1.0' - Shale, black, hard, with streaks of bentonite, light gray.

Core #16 5454-5461; rec. 3.5'

1.0' - Shale, black, hard

2.0' - Bentonite, silty, hard, light gray

1.5' - Shale, black, hard

Core #17 5634-5652; rec. 15'

Top Kd Sd. 5622

3.0' - Sandstone, fine-grained, hard, cross-bedded, light gray with black laminations.

10.0' - Sandstone, medium-grained, hard, very porous, light gray

1.0' - Sandstone, fine-grained, hard, quartzitic, white

1.01 - Sandstone, coarse-grained, hard, cross-bedded, very porous, light gray with black shale laminations

Core #18 5655-5657; rec. 2'

2.0' - Sandstone, medium-to coarse-grained, hard, light gray, with light gray shale inclusions and black shale streaks; some quartzitic streaks

R. D. Murphy #2

Core #21 5667-5677; rec. 10'

2.0' - Shale, soft, black; slakes into nodular and rounded fragments

2.5' - Shale, silty, soft, dark gray 0.5' - Shale, silty, hard, medium-gray

2.0' - Shale, silty, soft, dark gray

3.0' - Sandstone, argillaceous, fine-grained, hard, light green to light gray, thin-bedded, with dark shale partings

Core #22 5677-5688; rec. 8!

8.0' - Sandstone, medium-grained, hard, cross-bedded, porous, light gray with black shale partings and laminations

Core #23 5690-5692; rec. 1'

1.0! - Shale, sandy, hard, medium gray

Core #26 5731-5746; rec. 11

0.8' - Shale, sandy, soft, light to medium gray

0.2' - Sandstone, medium-grained, hard, porous, quartzitic, greenish-gray

Core #28 5749-5764; rec. 5!

5.0' - Shale, soft, light greenish-gray, pyrite

Core #31 5766.5-5768; rec. 1'

1.0' - Shale, sandy, dark gray; shale, olive-green, sandstone, medium-grained, hard, green

Core #32 5768-5774; rec. 6!

6.01 - Shale, hard, mottled dark gray and olive-green

Core #33 5774-5780; rec. 61

6.0' - Shale, hard, olive-green

Core #34 5780-5792; rec. 12'

3.0' - Shale as above

9.0' - Shale, sandy, hard, mottled medium gray and olivegreen

Core #35 5792-5809; rec. 171

6.01 - Shale, silty, hard, mottled medium-gray and olivegreen

11.0' - Shale, sandy, hard, mottled medium gray and olive-

Core #36 5809-5812; rec. 2.5'

0.5' - Shale, soft, green

0.5' - Sandstone, fine-grained, argillaceous, green

1.5' - Sandstone, coarse-grained, hard porous, light gray

Core #37 5812-5821; rec. 9'

3:01 - Shale, hard, black

6.0' - Shale, hard, purple, with calcite streak in middle

Core #38 5916-5918; rec. 2'

0.5' - Sandstone, fine-grained, hard, medium gray, with brown shale pebble inclusions

1.5' - Shale, hard, purple

Core #40 6014-6030; rec. 16'

1.0' - Sandstone, medium-grained, hard, slightly calcareous very porous, light gray with occasional purple shale streaks

3.0' - Sandstone, medium-grained, hard, porous, light gray 9.0' - Sandstone, coarse-grained, hard, porous, light gray, with variegated chert peobles up to 1/2" across and purple shale streaks

3.0' - Grit, fine, hard, very porous, light gray, with purple shale streaks

Core #42 6037-6039; rec. 1'

1.0' - Shale, soft, mottled light green, purple, and brickred

Core #43 6416-6436; rec. 15'

2.0: - Limestone, very finely colitic, black, very hard, with brachiopod shell fragments and black shale partings

1.0' - Sandstone, very fine-grained, very hard, very calcareous, tight, medium gray

3.0' - Limestone, very finely colitic, very hard, black, with abundant shell fragments and black shale partings

1.0' - Shale, hard, black, with some streaks of sandstone, gray, fine-grained

2.0' - Limestone, colitic, very hard, black and dark gray, with abundant shells and shell fragments and occasional black shale partings

3.0' - Shale, hard, cross-bedded, black, with streaks of sandstone, fine-grained, hard, very calcareous

1.0' - Limestone as above

2.0: - Shale as above

Core #44 6436-6445; rec. 13' (upper 4' belongs to core #43)

4.0' - Sandstone, fine-grained, very calcareous, very hard, dark greenish-gray with black shale partings

2.0! - Shale, hard, black, with streaks of sandstone as above

1.0' - Sandstone as above

6.0: - Shale and sandstone as above, cross-bedded and interbedded

Core #45 6445-6485; rec. 18'

12.0! - Shale and sandstone as above

6.0' - Limestone, hard, sandy, black to dark gray with abundant brachiopod shells and fragments

Core #46 6485-6501; rec. 15'

15.0' - Limestone as above; Belemnites at base

Core #47 6501-6505; rec. 21

2.01 - Limestone as above

Core #48 6505-6510.5; rec. 2'

2.0! - Limestone as above

Sample Analysis

5562-5567	Shale, hard, black
5567-5572	Shale, as above, with trace of sandstone, medium- grained, hard, light gray
5572-5587	Shale and sandstone as above, with trace of bentonite, light gray
5587-5597	Shale, hard, black, with bentonite, light gray;
5597-5602	sandy in part Shale and bentonite as above, with coal streaks
5602-5607	Shale, hard, dark gray, with light gray bentonite;
5607-5612	trace sandstone, light gray Shale as above; no sandstone
5612-5622	Shale as above, with trace of sandstone, light gray. fine- to coarse-grained

Sample Analysis (Cont'd)

Top Dakota Sandsto	<u>ne</u>
5622-5627	Shale, hard, dark gray, and sandstone, fine-to coarse-grained, hard, light gray
5627-5632	Shale and sandstone as above with some light blue-gray chert and pyrite
5632-5634	Sandstone, fine- to coarse-grained, hard, light gray, quartitic, with inclusions of light blue-gray chert, and with shale, hard, dark gray

UTAH OIL REFINING COMPANY Salt Lake City, Utah

September 10, 1937

E. S. Holt, Vice President

Mr. Jules D. Roberts
Mountain Fuel Supply Company
Salt Lake City, Utah

Doar Sir:

We have completed a fractional distillation (Podbielniak analysis) on each of the two gas samples received from the Mountain Fuel Supply Company September 2, 1937. Our results are as follows:

	Gas Sample Gas from R. D. Murphy Sample Well #2. Sample Taken from taken before gas 10" line at enters separator Red Creek
Methane and lighter Ethane and Ethylene Propane and Heavier	96.6% 92.5% 3.1 6.6 0.3 0.9 100.0% 100.0%

Specific Gravity

0.600

0.750

(Air= 1)

Yours truly,

//s// E. S. Holt

EPARTMENT OF THE INTERIOR

9-546-a (August, 1932)

Geological Survey Laboratory - Midwest, Wyoming

INFORMATION TO BE FURNISHED WITH EACH SAMPLE OF GAS

Yarks on container	Tab No. 36-G-4 (Filled by Chemist)
A DESCRIPTION OF THE CARLES TO	•
SOURCE OF SAMPLE: Clay Basin, Utah Far	
Ohio Oil Company Ope Cperator	rator's Address Casper Tyoming T. 3 H R. 24 E M
Sample taken by	Date taken?
If known, name of sand (or formation) from wh (If doubtful, so state)	
Depth to top of sand	Depth to bottom of sand
Fepth well drilled	Present depth
Depths(if known) where water encountered	
Depth at which water string is landed, cement	ed, mydddd
METHOD OF SAMPLING:	
Please place where sample was obtained (sump	hole, lead line, flow tank, bailer, etc.)
••••••	,
Method of production (flowing, pumping, air,	etc.)
Initial Production:	Present Production:
Barrels oil	Barrels Cil
(3) Correlation	
Complete information on this form is to otherwise sample will be disregarded	unless accompanied by above information . to be attached to each sample container; . Be sure to seal or tightly cork all

J-

be no confusion,

(SUBMIT IN TRIPLICATE)

UNITED STATES								
DEPARTMENT OF THE INTERIOR								
GEOLOGICAL SURVEY								

Budget Bureau No. 42-R358.1. Approval expires 11-30-49.							
Land Office Salt Lake	! -						
Lease No. 04 50 51 -A							
linit							

1	
NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING.
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR.
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
Notice of Thomas Pack Hell	· · · · · · · · · · · · · · · · · · ·
	RK NATURE OF REPORT, NOTICE, OR OTHER DATA)
R. D. Murphy Well #2	nock Springs, "yo march 10,1939
	from $\{S\}$ line and $\frac{660}{600}$ ft. from $\{W\}$ line of sec. 21
NE ₂ NE ₄ Sec. 21 3 N. 2 (4 Sec. and Sec. No.) (Twp.)	(Range) (Meridian)
Clay Basin Field Dagget	Uountu IIteh
(Field) (Coun	tty or Subdivision) (State or Territory)
The elevation of the derrick floor above sea l	level is <u>6485</u> ft.
DET	AILS OF WORK
	sizes, weights, and lengths of proposed casings; indicate mudding jobs, coment- ll other important proposed work)
ited July 24, 1935, and approv	rice of Intention to Plug Back" red by your Mr. R. D. Perguson on ugged back from 6709' to 5750' as
collowed up with mud. We then imped in 150 sacks of cement with mud. We then pulled ou	ement with drill pipe at 6799' and pulled out 567' of drill pipe and with drill pipe at 6232', then follow t 482' of drill pipe and circulated ole. The cementing was done by any.
I understand that this plan of work must receive approval	in writing by the Geological Survey before operations may be commenced.
	AND STANK STANK
Company MOUUTAIN FUEL SUPPLY Box 932	
Box 932 Address Rock Springs Wyomin	
Box 932 Address <u>Rock Springs, Wyomin</u> proved warch 15, 1939	g
Box 932 Address Rock Springs, Wyomin proved Warch 15, 1939 B. H. Murphy	g
Box 932 Address Rock Springs, Wyomin proved Warch 15, 1939 B. H. Murphy District Engineer	g By C. A. Hetzler
Box 932 Address Rock Springs, Wyomin proved Warch 15, 1939 B. H. Murphy	g By C. n. Hetzler

REFIRENT OF THE INTERIOR GEOLOGICAL SURVEY COLOR DECEMBER DECEMBER

Laboratory - Milmost, Transing

INFORMATION TO BE FURNISHED WITH EACH SAMPLE OF GAS

Marks on container Toll Description Lab. No. 10-Cl (Filled by Chemist) SOURCE OF SAMPLE:
Field Clay Dasin, Transity Utah Farm or (Lease Fall Labo City Olsofile) (Serial Number)
Operator Mountain Fuel Supply Co. Operator's Address Rock Oprings Ryc.
Well No. 2 5 MIG MI , 1 Sec. 21 , T. 3 M , R. 21 E , M. G.L
Sample taken by D. E. Kurphy Date taken 6-27-30
If known, name of sand (or formation) from which this sample is produced Datota
(If doubtful, so state) Depth to top of sand Depth to bottom of sand
Depth well drilled 6770 Present depth 5750
Depths (if known) where water encountered
Depth at which water string is landed, cemented, mudded
METHOD OF SAMPLING:
Place where sample was obtained (sump hole, lead line, flow tank, bailer, etc.)
Woll head
Method of production (flowing, pumping, air, etc.)
Initial production: Present production:
Barrels Oil Barrels Oil
Barrels Water Barrels Water Gas Volume 15,000,000 (Approx.)
Gas Volume Gas Volume 15,000,000 (Approx.)
Rock Pressure Producing Rock Pressure 1800
REASON FOR ANALYSIS:
(1) Future reference: (2) To complete analyses and G.P.M. test 11 there is sufficient gas.
(2) to complete managers and correspond to the surface to the surface of the surf
(3) Correlation:
(4)

Note: A sample for analysis is of no value unless accompanied by above information Complete information on this form is to be attached to each sample container; otherwise sample will be disregarded. Be sure to seal or tightly cork all containers Ammediately after sampling and label all samples so that there will be no confusion.

GAS ANALYSES

Condition of sample	Laboratory No. LO-C1
Analysis by J.G. Crowland at Milwans.	Coming Date 7-0-39
ORSAT ANALYSIS	
Carbon dioxide (CO ₂)	0.00%
Oxygen (0 ₂)	0.27;3
(Methane (CH ₊)	99.5%
Nitrogen (N2) by difference	o.39.1
Specific Gravity (calculat	ted) 0.501;
Specific Gravity (observed	•
Calculated Gross B. T. U. per cu and 15.025 lbs. per sq. in	# M Z ***
HYDROGEN SULPHIDE BY TUTWILL	ER METHOD
Grains of hydrogen sulphide per at 60° F. and 15.025 lbs. per	
Percentage of hydrogen sulphide a 15.025 lbs. per sq. in	
HEATING VALUE BY SARGENT GAS	CALORIMETER
B. T. U. per cu. ft. at 60° F. and 15.025 lbs. determined by Sargent gas calorimeter:	per sq. in. pressure as
Gross	
Net	

Remarks and conclusions:

A dry gas: C.P.M. determination unnecessary.



DEPARTMENT OF THE INTER Ceological Survey

SOUTHWEST CASPER DISTRICT

Laboratory - Midwest, Wyoming

INFORMATION TO BE FURNISHED WITH EACH SAMPLE OF GAS

Marks on container: Well description Lab. No. 40-Gl SOURCE OF SAMPLE:

Field: Clay Basin, Utah Lease Salt Lake City 045051(a)

Operator: Mountain Fuel Supply Co. Address: Rock Springs, Wyo.

Well No. 2 S NE $\frac{1}{4}$ NE, $\frac{1}{2}$ Sec. 21, T. 3 N, R. 24 E, M. S.L.M.

Sample taken by: B. H. Murphy Date Taken: 6-27-39

If known, name of sand (or formation (from which this sample is produced: Dakota

Depth to top of sand 5627 Depth to bottom of sand: 5744

Depth well drilled: 6790 Present depth: 5750

Depths (if known) where water encountered:

Depth at which water string is landed, cemented, mudded:

METHOD OF SAMPLING:

Place where sample was obtained: Well head

Method of production (flowing, pumping, air, etc.): Flowing

Initial production: Present production:

Barrels oil Barrles Water Gas Volume Rock Pressure Barrels Oil
Barrels Water
Gas Volume: 15,000,000 (Approx.)
Producing Pressure: 1800#

REASON FOR ANALYSIS:

(1) Future reference:

(2) To complete analyses and C.P.M. test if there is sufficient gas.

(3) Correlation:

(4)

Note: A sample for analysis is of no value unless accompanied by above information. Complete information on this form is to be attached to each sample container; otherwise sample will be disregarded. Be sure to seal or tightly cork all containers immediately after sampling and label all samples so that there will be no confusion.

Condition of sample:

Laboratory No.: 40-Gl

Analysis by J. G. Crawford at Midwest, Wyoming Date: 7-8-39

ORSAT ANALYSIS

	Carbon dioxide (CO2)	0.00%	
	Oxygen (O ₂)	0.27%	
Total Hy- (drocarbons(Methane (CH _q))	
drocar bons (Ethane (C2H6 and higher	99.34%))	
	Nitrogen (N2) by difference	0.39%	
	Specific Gravity (calculated)	0.584	
	Specific Gravity (observed)	0.600	
	Average "n"	1.053	
	Calculated Gross B. T. U. per cu. ft. at 600 15.025 lbs. per sq. in. pressure	F. and	1063

HYDROGEN SULPHIDE BY TUTWILER METHOD

Grains of hydrogen sulphide per 100 cu. ft. of gas at 600 Ft. and 15.025 lbs. per sq. in. prexxure

Percentage of hydrogen sulphide at 60° Ft. and 15.025 lbs. per sq. in.

THEATING VALUE BY SARGENT GAS CALORIMETER

B. T. U. per cu. ft. at 60°F. and 15.025 lbs. per sq. in. pressure as determined by Sartent Gas calorimeter:

Gross- - -

Net- - -

nemarks and conclusions:

A dry gas; C.P.M. determination unnecessary.

DISTILLATE WELL TEST DATA

Customor Mt. Fuel Supply Co.	Loase R. D. Murphy	Well No. 2
Pield Clay Basin, Utah	Total Depth 5808	Sand Tosted 8-9-85
Lamo of Sand Pakota	Depth of Sand 5627-60	Sand Thickness
Sand Porosity	5677-90	Shut in Press.
Bottom Hole Press.	Bottom Holo Temp. 168 F	Orig. 2330//
Casing Size 8-5/8" (Liner 6-5/3")	Tubing Size 2 3	Pres. 2008
Motor Run 3120_ 6-5/3" U.D.	Orifice Size 2.000"	Sep.Calibration 10.18
Time of Sampling	Liquid Sample No. 11214	CO. O.
		Tubing Choke 1-1/18 5.2.
		Meter Conn. Figure
		Cas Sample No. 12813
Date Test Started 3-11-44	Date Test Comp.	leted 5-12-44

	Woll	ll Prossuros		Separator			Cas Moasurement			Later	Tank	
Tino	Flowing Temp.	ng Casing	Tubing					Dirr.	Press.	Temp.		ිබ සලම
	TOWO.							L-10	L-10 1000# 8p.	or.	ng. Con the principal date of the principal	
3:452.		1530#	1510/	500%			 	4.2		49		
4:15	**************************************			 	1	34	50	4.2	7.15	49	-	
4:30 4:45						 	-	4.2	7.15	49.5		
4:45	ė.	1				34	25	4.8	7.15	40		
5:00								4.2	7,16	49		
5118								4.2	7.15	4.9	}	
5:00(0)								4.8	7.17	49.5	}	
1245								4.8	7.17	50		
3:00(5)					-	34	40	}			(
0 10 10					·							
7:30F.3 7:45	**				<u> </u>				7.16	50		
(300	***************************************	<u> </u>				39	0		7.35	49		(
3:00 3:15	· ·							4.2	7.15	48		
					ļ			4.2	7.15	48		Ì
3:50(a) 3:45	; 				Ì	52	05	4.2	7,15	48		į
5 # 6 5 5 5 # 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5					<u> </u>	<u> </u>	<u> </u>	4.2	7.15	4.9	}	
):15	I A Paintina and a distribute dispersional designation of the contract of th	·		-		28	30	8.8	7.15	50		
7:30					-	-	<u> </u>	4.2	7,15	50.5		
)			4.2	7,15	51.) -	
1:45(d) 10:00	***************************************	 			}	<u> </u>	1	4.2	7.15	52		1
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⁽a) Liquid Sample #11 (b) Gas Sample #12 (c) Gas Sample #13 (d) Liquid Sample #14

Water Tests: 10:37 P.M. to 9:10 A.M. Got 14.125 Gals. at 56° P. 9:10 A.M. to 11:43 A.M. Got 2.125 Gals. at 45° F.

Well Elevation: 6478'.



SPECIALIZING IN FUNDOE AL ANALYBIS OF NATOA GAS AND GABOLINE

EDGAR E. SHAFER, Jr.

GAS RESEARCH AND ENGINEERING SERVICE

DISTILLATIONS

VAPOR PRESSURES

Laboratory: 5119 Kinsie Street Los Angeles 22, California March 26, 1944. TELEPHONE
ANGELUS 1-9726

Mountain Fuel Supply Company, Rock Springs, Wyoming.

Attn. Mr.J.T.Simon

Gentlemen:

The following is a report on Fractional Analysis of :

SAMPLE OF ---- LIQUID from R.D.Murphy #2 separator, #11 SAMPLE TAKEN --- March 11, 1944. 49°F., 500 lbs. DATE RECEIVED -- March 16, 1944. REPORT NO.MW-L1 TEST NO.4144

ANALYSIS

	ANAHIBIB	
Fraction	Percent by LIQUID VOLUME	MOL Percent
Methane & lighter	6.23	14.99
Ethan e	2.44	4.16
Propane	2.96	4.38
Isobutan e	1.47	1.83
n-Butane	3.26	4.20
Isopentane	3.11	3.45
n-Pentane	3.46	3.88
Hexanes-plus	77.07	63.11
TOTAL	100.00	100.00
Mol Weight of l Spec.Gravity	Hexanes-plus Residue	117 0.7487
Vapor Pressure	и и и @ 100°F	2.0 Lbs.ABS.

Submitted,

EDGME SHAFEN JR

APPROVED BY THE CALIFORNIA NATURAL GABOLINE ABBOCIATION

NALYBIS OF NATE BAS AND

EDGAR E. SHAFER, Jr.

GAS RESEARCH AND ENGINEERING SERVICE

DISTILLATIONS

VAPOR PRESSURES

Laboratory: 5119 Kinsie Street
Los Angeles 22, California
March 26, 1944

TELEPHONE
ANGELUS 1-9726

Mountain Fuel Supply Company, Rock Springs, Wyoming.

Attn. Mr.J.T.Simon

Gentlemen:

The following is a report on Fractional Analysis of :

SAMPLE OF ---- #12 GAS from R.D.Murphy #2 separator SAMPLE TAKEN --- March 11, 1944 49°F., 500 lbs. DATE RECEIVED -- March 16, 1944.
REPORT NO.MW-N7
TEST NO.4145

ANALYSIS

Fraction	Percent by Volume	Liquid Content Gal.per MCF
Carbon Dioxide	0.10	dar.per mor
Methane & lighter*	93.26	
Ethane	4.17	•
Propane	1.33	0.365
Isobutane	0.23	0.075
n-Butane	0.38	0.120
Isopentane	0.17	0.062
n-Pentane	0.17	0.062
Hexanes-plus	0.19	0.083
TOTAL	100.00	0.767

*Estimated Nittogen content ... 3%

Submitted,

/6

GAS AND GABOLINE

EDGAR E. SHAFER, Jr.

GAS RESEARCH AND ENGINEERING SERVICE

DISTILLATIONS
VAPOR PRESSURES

Laboratory: 5119 Kinsie Street
Los Angeles 22, California
March 26, 1944

TELEPHONE
ANGELUS 1-9726

Mountain Fuel Supply Company, Rock Springs, Wyoming.

Attn. Mr.J.T.Simon

Gentlemen:

The following is a report on Fractional Analysis of :

SAMPLE OF ---- #13, GAS from R.D.Murphy #2 separator SAMPLE TAKEN --- March 11, 1944. 48°F., 500 lbs. DATE RECEIVED -- March 16, 1944. REPORT NO.MW-N8 TEST NO.4146

ANALYSIS

Fraction	Percent by Volume	Liquid Content Gal.per MCF
Carbon Dioxide Methane & lighter*	0.20 93.01	GGI, DOI MOI
Ethane Propane	4.19	0.362
Isobutane n-Butane	0.27 0.50	0.088 0.158
Isopentane n-Pentane	0.16 0.16	0.059 0.058
Hexanes-plus	0.19	0.083
TOTAL	100.00	0.808

Estimated Nitrogen content 2%

Submitted.

DOME SHAFER

APPROVED BY THE DALIFORNIA NATURAL BABOLINE ABBODIATIO

AND GABOLINE

EDGAR E. SHAFER, Jr.

GAS RESEARCH AND ENGINEERING SERVICE

DISTILLATIONS

VAPOR PRESSURES

Laboratory: 5119 Kinsie Street Los Angeles 22, California March 26, 1944 TELEPHONE

ANGELUS 1-9726

Mountain Fuel Supply Company, Rock Springs, Wyoming.

Attn. Mr.J.T.Simon

Gentlemen:

The following is a report on Fractional Analysis of :

SAMPLE OF ---- #14 LIQUID from R.D.Murphy #2 separator SAMPLE TAKEN --- March 11, 1944 48°F., 500 lbs. DATE RECEIVED -- March 16, 1944. REPORT NO.MW-L2 TEST NO.4147

ANALYSIS

<u>Fraction</u>	Percent by LIQUID VOLUME	MOL Percent
Methane & lighter Ethane Propane Isobutane n-Butane Isopentane n-Pentane Hexanes-plus	6.77 2.61 3.12 1.45 3.54 3.25 3.47 _75.79	16.01 4.36 .4.53 1.77 4.48 3.55 3.82 61.48
TOTAL	100.00	100.00
Mol Weight of H Spec.Gravity Vapor Pressure	exanes-plus residue " " " @ 60°F" " " @ 100°F	116 0.7483 1.8 lbs.Abs.

Submitted,

Sagar Shafer

1

PPROVED BY THE CALIFORNIA NATURAL GASOLINE ASSOCIATIO:

CHEMICAL & GEOLOGICAL LABORATORIES

521 South Center St. P. O. Box 279
Casper, Wyoming

CORE ANALYSIS REPORT

Field.	CLAY BASIN, UTAH	Well No	R. D. M	urphy #2	
Operator	Mountain Fuel Supply Company	Location	NE NE	21-3N-24E	
Formation.	Depths 56	34 - 5688.	***************************************	Lab. No	1367
	v Chemical-Geological Laboratories				

	, a			OIL S	SATURATION	WATER	SATURATION
SAMPLE NO.	DEPTH, FEET	POROSITY	PERMEABILITY. MILLIDARCIES	PERCENT PORE SPACE	BARRELS PER ACRE FEET	PERCENT PORE SPACE	BARRELS PER ACRE FEET
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1	5634-52A 34		119 0	,			
1 2 3 4 5 6 7 8 9 10	5634-52B 39		46 23				
3	5634 520 <i>+0</i>	17.6-	38 2.30				
4	5634-52D 13	16.9	66 35 84 24				
5	5634-52E **		84 24				
7	5634-52F 17 5634-52G 19		0. 0.03				
g ·	5655-57A 55		0.01				
g	5655-57B 57		5.92 4.59				
10	5667-774 //	10.6	0 0.01				
11	5667 4 778 ₹7		0 (a)			,	
12	5677 - 38A **	11.2	0 0	/ .			
13	567 7⊷ 88B ∕′	14.2	0 0.37				
14	5677 - 880 /3	15.9	0 0.05				
15	5677 - 88D 99	12.3	0.05				
,							
		NOTE: (a) indicates	insuffic	ent sample.		
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SUMMARY

		ĮA	rithmetical	average,	excluding sections	with less than one-	tenth millidarcy permeabil	ity)
-	DEPTH. FROM	FEET TO	FEET OF	SAND	AVERAGE POROSITY	AVERAGE PERMEABILITY	AVERAGE OIL SATURATION	AVERAGE WATER SATURATION
	5634A -	5652 E			15.7	71 17		
:)/3		<u> </u>					

DETAILS OF PLAN OF HORA

This well has been drilled to a total depth of 6790 feet.

The second bench of the Sundance sand was encountered at 6737 feet and drilling was stopped at 6790 feet in sand which showed water.

The first bench of the Sundance sand was encountered from 6521 to 6644 feet. This sand also showed water.

We encountered a sand in the Morrison formation from 6014 to 6030 feet which showed water.

From 5909 to 5918 feet we had a sand which showed a small amount of gas.

From 5808 to 5812 feet we had a sand with a small showing of gas.

From 5764 to 5766 feet we had a sand with a small showing of gas.

From 57 & 4 to 5746 feet we had a sand with a good showing of gas.

From 5677 to 5692 we had a sand with a good showing of gas.

From 5627 to 5660 feet we had a sand which gauged 16,000,000 cu. ft. of gas.

We would like permission to plug this well back to 5750 feet with approximately 300 sacks of cement, then set perforated liner and produce from the three beaches of Dakota sand, that is,

From 5627 to 5660 5677 to 5692 5724 to 5746

These three beaches of sand combined gauged 34,000,000 cu. ft. of sweet gas. 'ur 8-5/8" casing is set and cemented with 632 sacks of cement at 5627 feet.



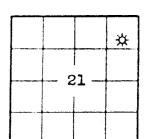
WELL RECORD

Salt Lake #045051-A

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Gas 32 M cu n R.P. 2220 Oil ______Bbls. Drilling Commenced July 30, 1934 Completed August 9, 1935 Total Depth 6799 ft. Drilled under contract to Remarks: Mt. Fuel Supply Co. by Rocky Mt. Drilling Co.

Casing Record: $15\frac{1}{8}$ " - 70# cemented © 199' 10"; 8-5/8" - 32and 36# cemented © 5626' 7"; 6-5/8" - 26# liner set with bottom © 5868' and top 5620' 6"; string of $2\frac{1}{8}$ " - 6.5# U.E. tubing installed with bottom hole choke and Hetzler ball bearing tubing head.

FORMATION RECORD			FORMATION RI	ECORD	
From	То		Fr	om (1	Γο
Surface sand and brown			Shale and shells	5065	5090
shale	0	60	0. 7		
Shale and shells	60	130	Hard shell Shale and shells	5090 5115	
Shale	130	140	Shale and shells	5119	
Shale and shells	140	340	Shale	5160	
Shale	340	405	Shale and shells	5187	
Shale and sandy shale	405	495	Shale	5200	
Shale	495	525	Hard shells	5261	
Shale and shells	525	740	Shella	5000	
Sandy shale	740	815	Gray, sandy shale Black shale	5294	529
Shale and shells	815	970	Black shale	5297	
Shale and shells Sandy shale	970	1070	Gray and black		2.30
Shale and shells	1070	1095	Black shale Gray and black sandy shale Gray sand with black	5298	53041
Sandy shale	1095	1230	Gray sand with black	0500	JUJ4
Sand shale and			shale streaks - No		
hard shells Sand and shale	1230	1300	showing, FRONTIER	5304'6" ⁵	, 53091
Sand and shale	1300	1370	Gray shale	530916"	
Hard sandy shale	1370	1415	Gray sand, fine and	5555	3010
Gray sandy shale	1415	1470	hard, no showing	5310'6"	53111
Hard sandy shale	1470	1515	Black shale	5311'6"	53121
Gray sandy shale Hard sandy shale Sandy shale	1515	1575	Gray, sandy shale	531216"	53131
Gray sandy shale Gray sandy shale Sticky gray shale Hard sandy shale Bandy shale	1575	1645	Fine, gray, hard sand	531316"4	5319
Sandy shale	1645	1905	Gray, sandy shale	5310	5320
Sticky gray shale	1905	1955	Hard fine grow gond	5300	/ 530
Hard sandy shale	1955	1980	Blue and gray shale	5321	5 7 O
Bandy shale	1980	2035	Hard, fine, gray sand	5322	9 5301
Sandy shale Hard gray shale	2085	2205	Blue and gray shale Hard, fine, gray sand Gray, hard sand Gray, sandy shale	5326	/ 530t
Mard shale	2205	2230	Grav. sandy shale	5707	, 502 5300
		226.5	Fine, gray, medium		2020
Mard shale	2230 2265	2300	hand sand with this	18	
Gray shale	2300	2340	coal stracks showing	16	
Gray sandy shale	2340	2400	hard sand with thin coal streaks showing gas from top to	51 5320	
Gray shale	2400	2630	bottom	5 5200	76 5 3 44
Shale	2630			0020	
Gray shale	2700	117766	Blue, sandy shale Gray sand		5345
Sandy shale	27 55	2770	Gray sand Gray, sandy shale Coal	5345	5346
Shale	2770	2725	Coal	5546 5740	5340
Char shele	0705	200	OUAL	5549	534916

534916" 535016" Gray shale 2845 Gray, sandy shale 2785 Shale 2900 Fine, gray, medium 2965 Hard sand 2845 Gray sandy shale **535**016" 5358 2900 3060 Black and gray shale Shale 2965 **53**58 5360 Gray sandy shale Hard gray shale 3060 3110 Hard, sandy shale 5360 5363 3165 Hard, gray sandy shale 3210 Hard sand 3110 5363 5364 Shale 3165 5364 ~ 5366 3315 Hard, gray sandy shale 3360 Hard, gray sand Gray shale 3210 5366 5377 Sha le 3315 5382 5377 5 Gray shale 3360 3420 Grayish, black shale 5382 5386 Shale 3420 5386 2538716" Shale with Calcite 5387 ' 6"

3535 Fine, hard, gray sand Grayish, black shale 3605 Grayish, black shale stringers 3535 3605 3875 Black shale 3875 3910 | Bentonite

5400 5418 Shale 5418 5424 Shale, gray 5424 5425 Shale 4135 Black shale 4200 Bentonite 3910 5425 5452 Gray shale 4135 5452 5453 4200

Hard shale 4230 Grayish, black shale 5453 5454 Shale 4765 Black shale with 4230 Shale and shells 4765 4805 streaks of bentonite 5454 5456 Shale 4805 5065 | Bentonite 5456 5459

6287

Variegated shale

Hard shale Lime and shale

Robert D. Murphy

Farm Company Mountain Fuel Supply Company

Sec. 21 т. 31 $w_{\rm eff} \, v_{\rm o.} \, \underline{\hspace{0.1cm} 2}$

FORMATION REC	ORD		FORMATIO
	From	To	
Very hard black shale	5459	5461	Hard shale and
Hard shale	546]	5481	lime shells
Hard, sandy shale	548]	. 5488	Shale, hard
Hard shale	5488	5492	Variegated shale
Shale	5492		Hard shale, sand
Shale and bentonite		5524	streaks
Shale	5524	5573	Variegated shale
Hard shale	5573	5579	Sandy shale - TWIN
Shale		5610	
Shell	5610	5613	Lime and shale,
Hard shell	5613	5615	(fossiliferous)
Hard shale	5615		,
Shale	5616	5625	Dark gray shale Greenish gray shal
Hard shell	5625	5627	Candy shall gray shall
DAKOTA SAND	56.27	5660	
Gray shale	5660	5663	Lime, sandy Sand, light gray,
Black shale	5663	5000	Sand, light gray,
Hard, sandy shale	5663 5667	5067	1st SUNDANCE
Sandy shale	5607 5607	5676	* *
Sand		5677	-) ())
	5677	/3 5690	
Sharp, sandy shale Hard shale	5690	5692	G- at 5
	5692	5694	2nd SUNDANCE
Sentonite	5694	5696	
rayish black shale	5696	5705	
ray shale	5 7 05	5707	
Shale	5707	5722	
lard shell	5722	5724	
oft send	5724	7 5731	,*
oarse, soft sand		13 5744	
roken sand & shale		z 5746	
oft shale	5746	5749	
oft, gray shale	5749	5764	5667
ray shale	5764		5387_
ard, sandy shale		5766'6"	190
andy shale	57664	5768	U ,
lue shale	576 8	5788	
luish gray shale	5788		
ray shale		5808 ' 6"	
ard sand cap rock	5808a		
and	5809 5809	1	
ORRISON SHALE			
hale	5812		
rown shale	5821	1	
	5827	The state of the s	
ariegated shale, hard	5837		
	5845	5880	
ard shale	5880	5893	
nale	5893		
ard shale & shells	5900		
ard sand	5909		
and, very hard	5912		
ard, shelly sand		5917	
ird, red shale	5917	5918	
ird shells & shale	5918	5920	
ard shale	5920		
ale, lime shells		1	
ale	5942 5967		
d shale	5961		
ale, hard shell on top	5991	5998	
of Morrison sand	5000	6000	
ND sand	5998	6009	
ind	6009	6014	
	6014	6030	
rd sand - (Water)	6030	6037	
rd sandy shale	6037	6063	
	6063		
ndy shale	6093	6101	·
ay shale & shells	6101	6130	
ay shale	6130	6174	
riegated shale		01/1/	

ale, erous) ha le ay shale gray, YCE shale and, 1CE

FORMATION RECORD

- TWIN

From

CASING RECORD

R. D. Murphy Well No. 2 Clay Basin Field Dargett County, Utah

15-1/2" - 70# - 10 Thread DBX Casin:

10 joints, 189'8" gross, 187'2" net, landed on casing clamps at 199'10" 12'8" below rotary table. Baker casing shoe used and spot welded. First four joints spot welded above and below collars. The emented with 150 sacks of Ideal Portland Cement, last 50 sacks treated, by Ferkins Oil Well Cementing Company on August 3rd, 1934.

8-5/8" - 32# & 36# - 8-Thd. & 10-Thd. Casing:

77 Jts. 2256'l" Gross, 2236' 5" Net, 8-5/8" -36# -8Thd. 152 Jts. 3416'10" " 3378'10" " 8-5/8" -32#-10Thd. 229 Jts. 5672'll" " 5615' 3" " Above casing API Seamless.

Cemented at a depth of 5626'7", 11'4" below the rotary table.

Baker whirler Cement Float Shoe used on bottom.

Baker Float Collar used two joints from bottom. Shoe joint was 8-5/8" - 32x - 10-Thread National API Seamless casing 31' long. Second joint was 8-5/8" - 30# - 8-Thread Yourgstown API seamless casing 20'6" long, with 10-thread on bottom and 3-thread on top. Daker Float Collar was put on this joint.

79th joint was change joint from 8-thread to 10-thread, and was 8-5/8" - 32x casing 11'5" long. First 7 joints were spot welded above and below collars. Cemented with 632 sacks of Monolith Fortland cement, last 100 sacks treated, by Perkins Oil Well Cementing Company on October 9, 1934.

6-5/8" - 26" - 10-Thread API Casing, Set as Liner:

9 joints, 249'9" gross, 247'6" net, set with the bottom at 5868' and the top at 5620'6". Liner set with left thread joint. Steel collar with left thread placed on top of liner and common collar, beveled with cutting torch, placed on bottom. Liner perforated from:

5620' 6" to 5660' 5677' to 5692' 724' to 5746'.

2-1/2" - 6.5# - 10-Thread API Seamless Upset Tubing:

195 joints, 5711'9" gross, 5648'6" net, not including bottom hole choke, which consisted of 24'4" of pipe, were placed in well. The string of tubing, including the bottom hole choke, has a total net length of 5672'10" and was landed on Hetzler Ball Bearing Tubing Head - 2' above the rotary table. The pottom hole choke was perforated from 5669'10" to 5672'10". Those was set off bottom due to sand in the well.

21'3" of 3" line pipe and 21'3" of 2" - 4.6" U.4. tubing used in making bottom hole choke.



ACCOUNTING FOR PIPE

R. D. murphy Well #2 Sec. 21-3-24 Daggett County, Utah

Date	Trfr.	To or From	Debits	Credits	Balance
15-1/2" -	- 70 ii Dua	Casing:			
	12832 40438	WyoCalif. Pet. Co.	207'4"	17' 8"	189' 8"
14" O.D.	- 67.741 m	P.E. Line Pipe:			•
9/24/34 9/12/35	57602 40431	R. S. whse R. D. murphy darm	12' 0"	12' 0"	-
10-3/4" -	- 40.50# A	PI Seamless Sasing:			
10/31/34 9/12/35	35360 40433	M. F. machine Shop n. D. murphy Farm	12' 8"	12' 8"	-
8-5/8" -	324 & 364	API Casing:			
8/27/34 8/ 27/34	39681 39682 37499 37500 37505 35254 35263 25148	W.H.Humphreys #2 B.d.Musser Farm R. S. Whse. R. S. Whse. R.S.Whse. @ miawatha M.F.Machine Shop M.F.Machine Shop Contl. Supply Co.	1877' 9" 972' 2" 200' 4" 452'3" 239' 4" 30' 7" 120' 9"		
9/16/34	25462	(Remittance 5606) Natl. Supply Co.	2009' 1"	•	
10/31/34 5/30/35 9/12/35 9/12/55	35360 35680 40433 40438	(Remittance 5685) M. F. Machine Shop M. F. Machine Shop M. D. Murphy Farm M. F. Machine Shop	247	427' 2" 62'11"	5672'11"
8-1/4" -	32# DBK C	asing:			
8/27/34 8/31/34 9/12/35 9/12/35	37504 55263 40433 40438	R.S. whse. @ Hiswatha M. B. Machine Shop R. D. Murphy M. B. Machine Shop	29' 9" 21' 3"	34' 5" 16' 7"	-
<u>0-5/8" -</u>	26# API C	asing:			,
7/31/34 8/27/34 10/30/34 7/30/35 7/30/35 9/12/35 9/12/35	24825 37501 37680 38141 38142 40432 40433	Ohio Oil Co.(Davis Farm) n. 5. whse n. 1. murphy Farm n. 1. murphy Farm	45' 6" 2771' 9" 287' 3" 14' 6" 117' 6"	45' o" 2941' 5 "	249' 9"
3" Line	Pipe:			·	
7/26/35	1805	Colony Corp	21' 3"		21' 3"
2-1/2" -	6.5" - AP	I Seamless Upset Tubing:			
10/24/34 9/12/35 9/12/35	298 40434 40436	Natl.Supply Co. R.S. Whse. M.R. 610 Parco Garage Co.	6063'10"	347'10" 4' 3"	5711' 9"
2" Upset	Tubing:				
7/30/35	38140	R. S. Whse	21' 3"	,	21' 3"

C R. D. Hurphy Well #2 C

CORE FORMATIONS

5294 - 5297	Gray sandy shale
5297 - 5298	Black shale
5298 - 5304 * 6"	Gray and black sandy shale
5304 * 6" - 5309 * 6"	Gray sand with black shale streaks (No showing)
5309	Gray shale
5310' 6" - 5311' 6"	Gray sand and hard (No showing)
5311 6" - 5312 6"	Black shale
5312 * 6" - 5313 * 6"	Gray sandy shale
5313' 6" - 5319	Fine gray hard sand (No shorting)
5319 - 5320	Gray sandy shale
5320 - 5321	Hard fine gray sand (No showing)
5321 - 5322	Blue & gray shale
5322 5326	Hard fine gray sand (No showing)
5326 - 5327	Gray hard sand (No showing)
5327 - 5328	Gray sandy shale
5328 - 5344	Fine gray medium hard sand with thin coal streaks showing gas from top to bottom
5344 - 5345	Blue sandy shale
5345 - 5346	Gray sand (No gas showing)
5346 - 5349	Gray sandy shale
5349 - 53491 6"	Coal
5349; 6" - 5350; 6"	Gray sandy shale
5350 1 6 1 - 5353	Fine gray sand Medium hard (No gas showing)
5353 - 53 57	Fine gray sand Medium hard (No gas showing)
5357 - 5358	Fine gray medium hard sand (No gas showing)
5358 - 5360	Black and gray shale
5360 - 5361	Gray sand, Hard
5361 - 5363	Hard sandy gray shale
, 5363 - 5364	Gray hard sandy shale
5364 - 5365	Hard sand
5366 - 5377	Hard gray sandy shale
5377 - 5382	Hard gray shale
5382 - 5383	Hard gray shale
5383 - 5385	Grayish black shale
5385 - 5386	Grayish black shale
5386 - 5387 * 6"	Fine hard gray sand
5387° 6" - 539 7	Grayish black shale
5397 - 5400	Grayish black shale

				outly (Noutle	
FROM		TO		FORMATION Chale	
Ö		60		Surface Sand & Brown shale	
60		140 340		Shele & Shells.	
140 340	Sat	1871 2	" 15½"		Backs
340	560	405	 02	Shale	
405		495		Shale and sandy shale	
495		525		Shale	
525		740		Shale and shells	
740		815		Sandy shale Shale and shells	
815		970 1070		Sandy shale	•
970 1070		1075		Shale and Shells	
1095		1230		Sandy Shale	
1230		1370		Sand and Shale	
1370		1415		Herd Sendy Shale	
1415		1470		Grey Sandy Shale	•
1470		1575		Hard Sandy Shale Grey Sandy Shale	
1575		1645 1905		Sandy Shale	•
1645 1905		1955		Grey Shale (Sticky)	
1955		2035		Herd Tendy Shale	
2035		2095		Hard Grey Shale	
2095		2135		Herd Sandy Shale	
2135		2205		Hard Grey Shale	
2205		2250 2265		Hard Shale Hard Grey Shale	
226 5		226 5 2 3 00		Hard Shale	
2300		2560		Grey Shale	
2560		2630		Grey Shale	
2630		2700		Shale	
2700		2755		Grey Shale	
2755		2770 2785		Sandy Shale Shale	
2770 2785		2845		Grey Shale	
2845		2900		Shale	
2900		2965		Grey Shale	
2965		3060		Shale	
3060		3165		Grey Sandy Shale	
3165		3210		Shale Grey Shale	
32 10 33 1 5		33 15 3360		Shale	
3360		3420		Grey Shale	
3420		3535		Shale	
3535		3605		Grey Shale with Calasite	
3605		4080		Shale	
4080		4100		Shale & shells	
41000 4765		4765 4805		Shele Shole & shells	
4805		5065		Shale	
5065		5160	,	Shale and shells	
5160		5187		Shale	
5187		5200		Shele and shells	
5200		5261		Shell	
5261		5292		Hard Shells Shell	
5292 5294		5294 5297		Grey Sandy Shale (Cored)	
529 7		5298		Black Shale	
5298		5304.		Grey & Bb ck Sandy Shale "	/ a a == a = 3 \
5304	•6	5309		Grey Sand with block shale streaks	(čeros)
5309		5510.		Grey Shale	Ħ
5310		5311.		Grey Sand, herd Grey Sand	11
5311 5326		5326 5344		Sand Gas Show	
5344		53 57		Hard Grey Dhale	(Cored)
5357		5382		Hard Grey Shale	11
5388		5386		Groyish Plack Shale	**
5386		5387	.6	Hard Grey Sand	17
5387	•6	5337		Greyish Black Shale	rt .

	TROM	G.C.	FOFMATION	
	539 7	5424	Black Shele	(Cored)
	5424	5425	Bentonite	(301,04)
	542 5	5440	Black Shale	11
	5440	5444	Bentonite	11
	5444	5452	Black Shele	11
	5452	5453	Bentonite	11
	5453	5484	Greyish Black Shale	17
	5454	5456	Black Shale with streaks	bentonite (Cored)
	5456	54.59	Bentonite	benibenizes (odied)
	5459	5461	Very hard Black Shale	ti
	546 1	5481	Hard Shale	
	5481	5488	Hard Sandy Shale	
	5488	5512	Shale	(Cored)
	5512	5524	Shale & Bentonite	11
	5524	5610	Shale	•
	5610	5615	Shell	
75	5615	5616	Shele Hard	
That	5616		Hard-Sand (Run 5627 8 .	5/8" casing at 5653()
	565 7	5660 Landown	Crey Shale (652 sacks cem	ent) (Cored)
	5660	5676	Grey Shale	11
	5676	5677	Sandy Shale	TI .
	5677		Sand.	17
	5692	5694	Hard Shale	ti
	5694	5696	Bentonite	FF.
	569 6	5707	drey Sm le	ti
	5707	57 22	Sha le	11
	5722	5724	Hard Shell	11
	5724	5744 36	Sand	17
	5744	5746	Broken Sand & Shole.	n .
5750	5746	5764	Soft Grey Shale	. 11
9	5764	5766	Sand	· · ·
	5766	5766].	Hard Tight Sand	tr
	5766 }	5777	Shale	n
	57 77	5800	Shele	n
	5800	5808	Sendy Shale	11
	5808	5812	Sand	Ħ
	5812	5821	Morrison Shale	n .
•	5821	58 37	Brown Shale	
•	5 85 7	584 5	Varigated Hard Shale	
	5845	5900	Shale	• •
	5900	5909	Hard Shale and shells	
	5909	5916	Sand.	
	5916	5010	Herd Send	(Core:)
•	5918	5920	Hard Sand and Shale	(00100)
	5920	5929	Hard Shale	
•	5929	5942	Shele	
	5942	5961	Shale and line shells	
	5961	5991	Shele	
	5991	6009	Red Shale, Hard	
	6009	6014	Sand, and shale	(Cored)
	6014	6030	Send, Gas Show water	(cored)
	6030		Bottom of hole.	
			Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	



	Form a	pproved.			
	Budget	Bureau	No.	42-R	1424
4 41 4					
LBARD	DESCRION.	ATION A	ND B	BRIAI.	NO.

Form 9-331 (May 1963)		INITED STATES ENT OF THE II		SUBMIT IN TRIPLICATES (Other Instructions on reverse side)	Form approv Budget Bure 5. LEGARE DENIGNATION	nu No. 42-R1424
		EOLOGICAL SUR			SL - 045051-	-A
(Do not use	this form for proposa	CES AND REPORTED TO THE PROPERTY OF THE PROPER	or plug back t	to a different reservoir.	6. IF INDIAN, ALLOTTE	
OIL GA	S X OTHER				7. UNIT AGREEMENT N. Clay Basin (/
WELL W					8. FARM OR LEASE NA	
	ain Fuel Supp	Ly Company			Unit Well	
3. ADDRESS OF OPE	RATOR	9. WELL NO.	7			
P. O.	Box 1129,	Rock Springs	, Wyoming	82901	2	
	LL (Report location cle	arly and in accordance			Clay Basin	· · · · · · · · · · · · · · · · · · ·
1120'	FNL, 660'	FEL NE N	E		NE NE 21-3N-	
14. PERMIT NO.		15. ELEVATIONS (Show v	whether DF, RT,	gr, etc.)	12. COUNTY OR PARISI	
_		DF 6485'	GR 64	478'	Daggett	Utah
16.	Check App	propriate Box To Inc	dicate Natu	re of Notice, Report, or C	Other Data	
	NOTICE OF INTENT	ION TO:		SUBSEQ	JENT REPORT OF:	

REPAIRING WELL PULL OR ALTER CASING WATER SHUT-OFF

TEST WATER SHUT-OFF ALTERING CASING FRACTURE TREAT MULTIPLE COMPLETE ABANDONMENT* SHOOT OR ACIDIZE ABANDON* SHOOTING OR ACIDIZING CHANGE PLANS REPAIR WELL (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) (Other) Pull liner, set casing

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

TD 6799', PBD 5868', producing from Dakota formation through perforated liner.

We would like to pull the liner, under ream open hole section to 5868', log, run approximately 5868' of 7", 26#, K-55 super flush joint casing and cement with a total of about 207 sacks of cement, perforate the Dakota zone with 2 holes per foot, run and set production packer, run 4-1/2"OD, 11.6#, K-55, tubing, then make a short production test.

APPROVED BY THE DIVISION OF

8. I hereby certify that the foregoing is true and correct SIGNIOD	Manager, Drilling and Petroleum Engineering	DATE Sept. 22, 1976
(This space for Federal or State office use)		, , , , , , , , , , , , , , , , , , ,
APPROVED BYCONDITIONS OF APPROVAL, IF ANY:	TITLI	DATIO

Form 9-131 (May 1963)		VITED STATE		SUBMIT IN (LICATE* (Other instructions on reverse side)	Form approved Budget Bureau 5. LEASE DESIGNATION A	No. 42-R1424
		EOLOGICAL SUR			SL - 045051-A	15
SUNE (Do not use this f	ORY NOTI	CES AND REPORTED TO THE PERMIT OF THE PERMIT	ORISONE or plug back to for such proposal	MELLS) a diderent reservoir.	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
OIL GAS WELL X	OTHER		JUN 27		7. UNIT AGREEMENT NAM Clay Basin Unit	B 7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
2. NAME OF OPERATOR		_	DIVIOUS	or ou	8. FARN OR LEASE NAME Unit Well	E 4.3-
Mountain Fu 3. Address of Operator	el Supply	Company	GAS &	OE OIL SURVEY	9. WELL NO.	
P. O. Box 1	129,	Rock Springs,	Wyoming	82901	2	# 6 # =
4. LOCATION OF WELL (Re See also space 17 belov At surface	port location cl v.)	early and in accordance	with any State	requirements.* 1976	10. FIELD AND POOL, OR Clay Basin	
1120' FNL,	660° I	rel ne ne		L Stadie GS, WY Me	NE NE 21-3N-24E	
14. PERMIT NO.		15. ELEVATIONS (Show	whether DF, RT, GF	s etc.)		13. STATE
43-009-1562	6 FR-DK	KB 6493.50'	GR 6478	J	Daggett -	tah 🗦
16.	Check Ap	propriate Box To Inc	dicate Nature	of Notice, Report, or C	Other Data	
NC	TICE OF INTENT	mon to:	1	BUBSEQ	UENT REPORT OF:	
TEST WATER SHUT-OFE	, p	ULL OR ALTER CASING		WATER SHUT-OFF	REPAIRING WE	
FRACTURE TREAT	ш и	ULTIPLE COMPLETE		FRACTURE TREATMENT	ALTERING CAS	ING
SHOOT OR ACIDIZE		BANDON*		BHOOTING OR ACIDIZING Pull liner	& set Casing	• = = = = = = = = = = = = = = = = = = =
REPAIR WELL (Other)	°	HANGE PLANS	_	(Otner)(Nore: Report results	of multiple completion on letion Report and Log form	
17. DESCRIBE PROPOSED OR (proposed work. If nent to this work.)	COMPLETED OPER well is direction	ATIONS (Clearly state al	l pertinent deta rface locations a	ils, and give pertinent dates, nd measured and true vertice	including estimated date	of starting an
TD 6799', PBD 56	575', well	L shut in.				
Piared up mark a		on 0-8-76 m4*	llad on an	d recovered part	of the liner	1859
				.34' gross of 7"OI		
Hydril super FJ	casing at	: 5719.25' KBM	and set w	rith 176 sacks of	cement.	E 2 1 3
				4' to 5650' with		5 3 9
				er at 5556', botto M, swabbed hole d		
Inded 4-1/2 , 1	LI.UF, K) tuping at J.	J/J.OJ KI	m, swapped noie		
Final report.						
						B 1 👙
_		4				
	\mathcal{A}	The	10-	25-)(P 5
				· · · · · · · · · · · · · · · · · · ·		
18. I hereby certify that th	e foregoing is	true and correct	Manager	, Drilling and		<u> </u>
SIGNED R.G.	I Signed	TIT	Petrole	um Engineering	DATE Oct. 27	, 197 6
(This space for Federal	or State office					3 n 44
			* **			
CONDITIONS OF APP	ROVAL, IF AN	TIT:	LE		DATE	

Schmatilian moti. drawn to scale

RESENT STATUS Of WELL

CLAY BASIK FIELD

UNITNO2

P12-55/995 Revised 10-22-76 / 99 ..

Progression Store - 6487 for

FORMERLY R.D. MURDHY 42

thing head. CASING RECORD 152" 70 # 10mm OBX (3)

10 Jts 189' 8"9 ross 187'2" not landar 84 CS9 Clamps @ 199"10" or 12'8" below RT Baka sig show used + spot wolded. First 4 dis speck welded above + below allers. Cm's W/150 SY I deal Portland ant , last 50 SY treated by Porkins Dil Wall Cont Co 8-5-34 88, 35 a + 36, 8444 + 10+19 cs3

77 Jts 85 36 + BANK 152 Jis 85" 32" 1014

229 Ju

2256'1" 2236'5"

3416'10" 3378'10"

Above cog is API searles - Emited at a depol of 56 26' 7" or 11'4" below R.T. Baker which must floor stock used on bottom Baka flood collar usac 2 Jis Am do Hom shoe It win 85" 32" loved Note Apismis cog 31' long. Sound do was 8\$ 364 Bout Youngston API son 12 cag 20'6" long willower m bottom of Bod on top Baker Blue willer was put on this It 79th It was change to Am Bond to loved & we 18 \$" 324 cog 11" 5" long. First 7. Uts war spect wilded above + both willers for the my 632 sy Monalin Port int las 125 de monded by Perkins Oit Writ with 4 10- 4-34

7"0.0 csq.-1- Pc 7" 0.0 23" K-55 Hy Jil

net 23.34

Super FU cig 140 Sts 7" 23 * K-55 Hyd, 1

1 - Baker flust collar

1 7" Hydril Florit Joint to 52" Brd changeour 1 1 55" 23" K-55 BILLTHLY

0.90 41.69

1 Bakin guide shie

6.90 5712.75

Cog lander & 5719.25 for KOM or 6.50 for below Kis in a Not'l 10 - 3000 ps, cag Slange w/ hall wright 115,000 and show Gan Y w/ 116 Su So so Pormix followed W/ 60 St legular " treased. Bumpox plug w/ 2500 psi - hold good.

Note: / Ji s''s in bottom

Please refer to a HAUL sheet for trading and pucker details 199'10" 152" 70 " 10 thy DBX csg. cm+ 4/50 1,

and lill of sound & E cay by lay. and fill of brand 7" ug by long

Formalian 5326, mat Sand 5 240 partitions.

5556.00 fo Baker FB-1 production forties Jet by and love.

5575.63 1. bersom 415" twomy

=5626'-7" Also land 100

5675.76 f+ 60 How of 7' 139

5719.25 -55" 00, csg A138 old 65" line milled out to say depth.
5724 - 5746 perferences in old 65 //ner 5868 fo Top mir pag No2 - 60 mm 6 8 /inc.

6212 fr \$ 6279 for top ont plug 1/01

6.73,0 ft total round note 75 inch T.D. 6799 for 5 8 inch cour mile

Unit Well No. 2
Clay Basin Field
Status as of Recompletion
as a Gas Storage Well on
October 22, 1976

Picked up Baker FB-1 production packer on wireline and set at 5556.00 feet as follows:

	Net	Gross
1 Model FB-1 production packer with 4-inch bore dressed for 7-inch 23-pound casing, 5-inch		
8 round thread, box down	2.67	2.67
1 5-inch millout extension, 5-inch 8 round thread pin by 5-inch Acme thread box	6.28	6.56
1 Seal bore protector, 5-inch Acme thread pin to pin	7.06	7.66
1 Changeover nipple, 5-inch Acme box by 3-1/2-inch 8 round pin	0.64	0.86
1 3-1/2-inch O.D., 9.30-pound, J-55, 8 round thread, EUE tubing pup	6.02	6.24
1 Model "F" non-ported seating nipple with bore 3.281 with 3-1/2-inch 8 round box and		
pin 1 3-1/2-inch O.D., 9.30-pound, J-55, 8 round	1.03	1.25
thread tubing pup 1 Model "R" non-ported seating nipple with	4.05	4.27
bore 2.75 with $3-1/2$ -inch 8 round box and	0.85	1.10
pin Total	28.60	30.61

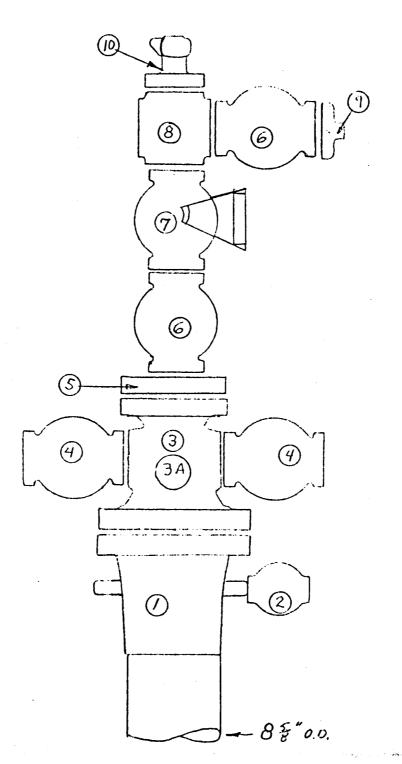
Unit Well No. 2 Clay Basin Field Status as of Recompletion as a Gas Storage Well on October 22, 1976

Ran 4-1/2-inch O.D. tubing as follows:

	Net	Gross
1 NSCo. tubing hanger tapped 4-1/2-inch		
8 round thread, top and bottom	0.72	0.72
1 4-1/2-inch O.D., 11.60-pound, K-55, 8 round thread, LT&C pup	2.17 🗸	2.41
1 4-1/2-inch O.D., 11.60-pound, K-55, 8 round thread, LT&C pup	4.13	4.37
1 4-1/2-inch O.D., 11.60-pound, K-55, 8 round thread, LT&C pup	5.75/	5.99
134 jts. 4-1/2-inch O.D., 11.60-pound, K-55, 8 round thread, LT&C casing	5541.44	5575.20
1 Baker 4-1/2-inch sliding sleeve box-pin, sleeve open	3.70	3.94
1 4-1/2-inch O.D., 11.60-pound, K-55, 8 round thread, LT&C pup	6.02	6.26
1 Baker Model "G" locator seal assembly with 9 extra seal units Total	7.40 5571.33	7.40 5606.29

Stung into Baker FB-1 production packer. Above tubing landed at 5575.83 feet KBM or 4.50 feet below KB on a NSCo. 6-inch 3000 psi tubing spool on a DP4-H-1 tubing hanger in 10,000 pounds compression.

Clay Basin Uni; No.2 after recompletion as a gas storage well 10-22-76



Clay Basin Unit Well No. #2

- (1) 10" X 3000 psi casing flange, Type B slip-weld for \$1-5/8"
- (2) 1 2" Demco ball valve with 2" X 6" HD nipple
- and 2" XH bull plug
 (3) 1 NSCo. DP-70 tubing spool, 6" X 3000 psi by /10" X 3000 psi (4) 2 - 2" X 3000 psi WKM gate valve flanged
- (5) 1 6" 3000 psi X 4" 3000 psi double studded adapter
 (6) 2 - 4" X 3000 psi WKM gate valve flanged
- (7) /1 4" X 3000 psi WKM gate valve flanged, equipped with safety actuator
- (8)/ 1 studded block tee 4" X 4" X 4" 3000 psi
- -(9) /1 weld flange 4" 3000 psi by schedule 80 weld
 - (10) /1 tree top adapter 4" 3000 psi flanged bottom, with 4-1/2" 8 round EUE lift threads
 - (3A) 1 NSCo. tubing hanger, Type DP 4 H-1 tapped 4-1/2" 8 round ST&C

Form approved.

	NT OF THE INTER	(Other instructions on verse side)	5. LEASE DESIGNATION	
GEC	LOGICAL SURVEY		SL - 04505	
SUNDRY NOTICE (Do not use this form for proposals Use "APPLICATIO	S AND REPORTS to drill or to deepen or plug N FOR PERMIT—" for such	ON WELLS back to a different reservoir.	6. IF INDIAN, ALLOTTE	E OR THIBE NAME
1.	101011111111111111111111111111111111111	P. (9)	7. UNIT AGREEMENT N	AME
OIL GAS WELL X OTHER	m-11A		Clay Basin Un	nit
2. NAME OF OPERATOR			8. FARM OR LEASE NA	
Mountain Fuel Supply	Company		Unit Well	
3. ADDRESS OF OPERATOR			9. WELL NO.	
P. O. Box 1129, 4. LOCATION OF WELL (Report location clear See also space 17 below.)	Rock Springs, Wyo	ming 82901 y State requirements.*	10. FIELD AND POOL, O	OR WILDCAT
At surface			Clay Basin	
			11. SEC., T., R., M., OR SURVEY OR ARE	BLK. AND
1120' FNL, 660' F	EL NE NE		01 01	0.4 ==
	Of management (Cl. 1841)		NE NE 21-3N-2	
14. PERMIT NO.	15. ELEVATIONS (Show whether i			
	KB 6493.50' G	R 64/8'	Daggett	Utah
16. Check Appro	opriate Box To Indicate	Nature of Notice, Report, c	or Other Data	
NOTICE OF INTENTION	N TO:	SUB	SEQUENT REPORT OF:	
	on at man granta	WARD CILIT OF	REPAIRING	WINT.T.
\ \	L OR ALTER CASING	WATER SHUT-OFF FRACTURE TREATMENT	ALTERING	
	NDON*	SHOOTING OR ACIDIZING	ABANDONMI	
	NGE PLANS		ner & set casing	X
(Other)	I LANS	(Note: Report res	ults of multiple completion	on Well
17. DESCRIBE PROPOSED OR COMPLETED OPERAT proposed work. If well is directionall	uone (Clearly state all pertin		ompletion Report and Log for test including estimated da	
Rigged up work over unit cleaned out to 5716', lan Hydril super FJ casing at Cleaned out to 5675', per jet shots per foot, landed 1anded 4-1/2", 11.6#, K-5	on 9-8-76, milled ded 5712.75' net, 5719.25' KBM and forated Dakota fred FB-1 production	5750.34' gross of l set with 176 sacks com 5614' to 5650' we a packer at 5556', b	7"OD, 23#, K-55, of cement. ith 2 HPF jumbo ottom at 5584.60	' KBM,
Final report.				
				•
				•
	,			
18. I hereby certify that the foregoing is tr	ue and correct	Manager, Drilling an	d	
201 10		Petroleum Engineerin	a Oat	27 1976
SIGNIOD Jugar	TITLE	.coroteam Engineerin	DATE OCL.	27, 1976
(This space for Federal or State office	use)			
APPROVED BY	TITLE		DATE	

orm 9 -33 1 May 1963)	IITED STATES	SUBMIT IN , LICATE®	Form approved.
DE	EPARTMENT OF THE IN	TERIOR (Other Instruct is on re-	5. LEASE DESIGNATION AND SERIAL NO.
	GEOLOGICAL SURVE	E Y	SL - 045051-A
SUNDRY	Y NOTICES AND REPOR	RTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	for proposals to drill or to deepen or "APPLICATION FOR PERMIT—" for		
OIL GAS WELL X	OTHER		7. UNIT AGREEMENT NAME Clay Basin Unit
NAME OF OPERATOR	Supply Company	FIEVEVI	8. FARM OR LEASE NAME
ADDRESS OF OPERATOR	Dupply Company		9. WELL NO.
P. O. Box 1129	9, Rock Springs, W	yoming 82901	V
LOCATION OF WELL (Report See also space 17 below.) At surface	location clearly and in accordance with	th any State requirements.*	10. FIELD AND POOL, OR WILDCAT Clay Basin
1120' FNL,	660' FEL NE NE	. Max. **	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
. PERMIT NO.	15. ELEVATIONS (Show when	1	NE NE 21-3N-24E
. I DRIVE ATO,		1	12. COUNTY OF PARISH 13. STATE
	KB 6493.50'	GR 6478* ate Nature of Notice, Report, or C	Paggett Vtah
TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other)	PULL OR ALTER CASING MULTIPLE COMPLETE ABANDON* CHANGE PLANS	WATER SHUT-OFF FRACTURE TREATMENT SHOOTING OR ACIDIZING (Other) (NOTE: Report results Completion or Recompl	REPAIRING WELL ALTERING CASING ABANDONMENT* of multiple completion on Well etion Report and Log form.)
proposed work. If well in nent to this work.)*	is directionally drilled, give subsurface	rtinent details, and give pertinent dates, e locations and measured and true vertica	depens for all markers and sones perti-
D 6799', PBD 5675'	', well shut in.		DESIZATION OF THE PROPERTY OF
	unit on 9-8-76, mille	ed on and recovered part	of the liner,
leaned out to 5716 ydril super FJ cas leaned out to 5675 et shots per foot,	sing at 5719.25' KBM an 5', perforated Dakota f , landed FB-1 productio	nd set with 176 sacks of From 5614' to 5650' with on packer at 5556', botto	cement. 2 HPF jumbo m at 5584.60' KBM,
leaned out to 5716 ydril super FJ cas leaned out to 5675 et shots per foot, anded 4-1/2", 11.6	sing at 5719.25' KBM an 5', perforated Dakota f , landed FB-1 productio	nd set with 176 sacks of From 5614' to 5650' with	cement. 2 HPF jumbo m at 5584.60' KBM,
leaned out to 5716 ydril super FJ cas leaned out to 5675 et shots per foot,	sing at 5719.25' KBM an 5', perforated Dakota f , landed FB-1 productio	nd set with 176 sacks of From 5614' to 5650' with on packer at 5556', botto	cement. 2 HPF jumbo m at 5584.60' KBM,



355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

April 15, 1985

Bureau of Land Management 170 South 500 East Vernal, Utah 84078

Attention: Benna

Gentlemen:

Re: Clay Basin Units #2, #3, #4, #5, #6, #10, and #11

Benna, we are unable to reach a decision regarding the status of the above mentioned wells. Wexpro states they are Gas Storage Wells and that they sent sundry's to that affect.

Reviewing our files, I am unable to locate any sundry's or any other information indicating that these are Gas Storage Wells. Perhaps Wexpro sent copies to you and not to us. Can you shed any light on the subject?

Any help you could provide us would be greatly appreciated.

Sincerely,

Vicky Carney Office Specialist, Production

cc: Dianne R. Nielson
 Ronald J. Firth
 Norman C. Stout
 File

0031-53



United States Department of the Interior

BUREAU OF LAND MANAGEMENT VERNAL DISTRICT OFFICE

170 South 500 East Vernal, Utah 84078

IN REPLY REFER TO: 3100

Clay Basin Unit

April 30, 1985

Mountain Fuel Supply Co. P.O. Box 11368 Salt Lake City, UT 84139

Re: Well No. 2

Sec. 21, T3N, R24E, SLB&M

Lease SLC-045051-A

Well No. 3

Sec. 16, T3N, R24E, SLB&M

State Lease

Well No. 4

Sec. 27, T3N, R24E, SLB&M

Lease SLC-045053-A

Well No. 5

Sec. 20, T3N, R24E, SLB&M

Fee Lease

Well No. 6

Sec. 23, T3N, R24E, SLB&M

Lease SLC-045051-B

Well No. 10

Sec. 23, T3N, R24E, SLB&M Lease SLC-045049

Well No. 11

Sec. 22, T3N, R24E, SLB&M

Lease SLC-045051-A

All in Clay Basin Unit.

All in Daggett County, Utah.

Gentlemen:

The aforementioned wells were originally completed as gas wells producing from the Dakata Formation. However, plan of developments/subsequent reports submitted for the Clay Basin Unit for calendar years 1977 through 1983 indicate that these wells are being converted to gas injection wells. If conversion has occurred, please submit sundry notices with subsurface schematics depicting the current status for each well. If alterations occurred to the casing while conversion was taking place, please submit Well Completion and Recompletion Report and Log for those wells affected, along with the aforementioned sundry notices.

Thank you for your cooperation in this matter. If you have any questions, please contact Allen McKee at (801) 789-1362.

Craig M. Hansen

Assistant District Manager

for Minerals



P.O. BOX 458

ROCK SPRINGS, WYOMING 82901

PHONE (307) 382-9791

May 8, 1985

Bureau of Land Management Vernal District Office 170 South 500 East Vernal, Utah 84078

MAY 7 3 1985

Re: Well No. 2

Sec. 21, T3N, R24E, SLB&M Lease SLC-045051-A

Well No. 3

Sec. 16, T3N, R24E, SLB&M

State Lease

Well No. 4

Sec. 27, T3N, R24E, SLB&M Lease SLC-045053-A

Well No. 5

Sec. 20, T3N, R24E, SLB&M

Fee Lease

Well No. 6

Sec. 23, T3N, R24E, SLB&M

Lease SLC-045051-B

Well No. 10

Sec. 23, T3N, R24E, SLB&M Lease SLC-045049

Well No. 11

Sec. 22, T3N, R24E, SLB&M Lease SLC-045051-A

All in Clay Basin Unit.

All in Daggett County, Utah

Dear Mr. McKee:

In reference to your letter 3100 on Clay Basin Unit, the above wells in question have all been converted to gas injection/withdrawal wells. This work was performed in 1976. Attached are sundries for wells that were reperforated in the Dakota along with schematics depicting each wells current status.

Thank you for bringing this matter to our attention. If you have any further questions, please contact me at 307-382-9791.

Sincerely,

Robert L. Rasmussen

Staff Engineer

RLR/srl

Attachments



CELSIUS ENERGY COMPANY

P.O. BOX 458

ROCK SPRINGS, WYOMING 82901

June 25, 1985

JUN 27 1985

DIVISION OF OIL GAS & MINING

State of Utah Natural Resources Oil, Gas and Mining 355 W N Temple, Suite 350 Salt Lake City, Utah 84180-1203

Re: Well No. 2

Sec. 21, T3N, R24E, SLB&M

Lease SLC-045051-A

Well No. 3

Sec. 16, T3N, R24E, SLB&M

State Lease

Well No. 4

Sec. 27, T3N, R24E, SLB&M

Lease SLC-045053-A

Well No. 5

Sec. 20, T3N, R24E, SLB&M

Fee Lease

Well No. 6

Sec. 23, T3N, R24E, SLB&M

Lease SLC-045051-B

Well No. 10

Sec. 23, T3N, R24E, SLB&M

Lease SLC-045049

Well No. 11 Sec. 22, T3N, R24E, SLB&M

Lease SLC-045051-A

All in Clay Basin Unit.

All in Daggett County, Utah

Dear Ms. Poulsen:

In reference to your letter on the Clay Basin Unit, the above wells in question have all been converted to gas injection/withdrawal wells. This work was performed in 1976. Attached are sundries for wells that were reperforated in the Dakota along with schematics depicting each wells current status.

Thank you for bringing this matter to our attention. If you have any further questions, please contact me at 307-382-9791.

Sincerely,

Robert L. Rasmussen

Staff Engineer

RLR/srl

Attachments

Clay Baxn Unit #3 Sec 21, 3N, 24E Ex My 14 June 88 access road dehydratov une heaks. meternin wellhead.



QUESTAR PIPELINE COMPANY

79 SOUTH STATE STREET • P. O. BOX 11450 • SALT LAKE CITY, UTAH 84147 • PHONE (801) 530-2400 June 23, 1988 CERTIFIED MAIL

RETURNED RECEIPT REQUESTED #P 879 571 459

Bureau of Land Management Utah State Office CFS Financial Center 324 S. State Street Salt Lake City, UT 84111-2303

Re: Name Change

Mountain Fuel Resources, Inc. to Questar Pipeline Company

Gentlemen:

Enclosed for your files and information is a certified copy of the Articles of Amendment to the Articles of Incorporation of Mountain Fuel Resources, Inc. dated March 7, 1988, indicating that Mountain Fuel Resources, Inc. changed its name to Questar Pipeline Company.

Questar Pipeline Company holds interests in the following Federal Oil and Gas Leases in Utah:

No well - RT & OR'S Mt. Fuel Resources— U-9712-A - Questar 100%

SLC-045051 (A) OR'S

SLC-045053 (A) OR'S

SLC-045053 (B) SLC-045053 (B) SLC-062508 - OR'S

SLC-070555 - OR'S

SLC-070555 - OR'S

Agreement No. 14-08-0001-16009 (Clay Basin Gas Storage Agreement)

Please note and adjust your records in accordance with the above and furnish verification of your receipt of this notice to the undersigned.

Sincerely,

B. Neese
 Senior Landman

JBN/sdg

Enclosure

SUBMI TRIPLICATES (Other astructions on reverse side)

S...TE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OU. GAS AND MINING

DIVISION OF OIL, GAS, AND MINING	SL - 045051-A	NO BERIAL NO.
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" (or such proposals.)	6. IF INDIAN, ALLOTTES	OR TRIBE NAME
OIL THE VAS TY CAR Character Heil	7. UNIT AGREEMENT NAME	
WELL AS OTHER GAS Storage Well NAME OF OPERATOR	Clay Basin Uni	
Questar Pipeline Company	Unit Well	
ADDRESS OF OFSEATOR	9. WELL NO.	
P.O. Box 11450, Salt Lake City, Utah 84147	2	
LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*	10. PIELD AND POOL, OR	WILDCAT
At surface	Clay Basin	
1120' FNL, 660' FEL NE NE	11. and, T., E., M., OR SLI august on Assa	
	NE NE 21-3N-24	
4. PERMIT NO. 15. BLEVATIONS (Show whether OF, RT, CR, etc.) 17. 00.0 10.1 10.1 10.1 10.1 10.7 10.7 1	Daggett	Utah
12-009-15 626 KB 6493.50' GR 6478'		o can
Check Appropriate Box To Indicate Nature of Notice, Report, or	Other Data	
NOTICE OF INTENTION TO:	QUENT ESPORT OF:	
TEST WATER SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF FRACTURE TREAT MULTIPLE COMPLETE FRACTURE TREATMENT	REPAIRING WE	
PRACTURE TREAT MULTIPLE COMPLETE PRACTURE TREATMENT SHOOT OR ACIDIZE ABANDON® SHOOTING OR ACIDIZING	ABANDONMENT	
(Other)		
The same than th	ts of multiple completion on pletion Report and Log form	.)
proposed work. If well is directionally drilled, give substitute locations and measured and title formation and title format		-
The purpose of the workover is to run chemical injection valve wi make continuous methanol injection possible during withdrawal. T the following: 1. Set plug in "R" nipple. 2. Circulate hole with CaCl ₂ water. 3. Pull the 4 1/2" tubing with seal assembly. 4. Rerun tubing with chemical injection mandrel and 1/4" co 5. Remove the water from the hole.	th 1/4" control 1 he program consis	ine to
The purpose of the workover is to run chemical injection valve wi make continuous methanol injection possible during withdrawal. T the following: 1. Set plug in "R" nipple. 2. Circulate hole with CaCl ₂ water. 3. Pull the 4 1/2" tubing with seal assembly. 4. Rerun tubing with chemical injection mandrel and 1/4" co	th 1/4" control 1 he program consis	line to
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The purpose of the workover is to run chemical injection valve wi make continuous methanol injection possible during withdrawal. T the following: 1. Set plug in "R" nipple. 2. Circulate hole with CaCl ₂ water. 3. Pull the 4 1/2" tubing with seal assembly. 4. Rerun tubing with chemical injection mandrel and 1/4" co 5. Remove the water from the hole. 6. Pull plug. This workover is planned to be carried out in August, Septem APPACATIO BY THE STATE OIL, GAS, AND LIBRANG OIL, GAS, GAS, CANDER, CANDER, CANDER, CANDER, CANDER, CANDER, CANDER, CAND	th 1/4" control 1 he program consists of the program c	line to sts of
The purpose of the workover is to run chemical injection valve wi make continuous methanol injection possible during withdrawal. T the following: 1. Set plug in "R" nipple. 2. Circulate hole with CaCl ₂ water. 3. Pull the 4 1/2" tubing with seal assembly. 4. Rerun tubing with chemical injection mandrel and 1/4" co 5. Remove the water from the hole. 6. Pull plug. This workover is planned to be carried out in August, Septem APPROVID BY THE STATE OIL, GAS, AND LIBRARY OIL, GAS,	th 1/4" control 1 he program consists of the program c	line to sts of



QUESTAR PIPELINE COMPANY

79 SOUTH STATE STREET • P.O. BOX 11450 • SALT LAKE CITY, UTAH 84147 • PHONE (801) 530-2400 • FAX (801) 530-2570

November 18, 1993

State of Utah Department of Natural Resources Division of Oil, Gas & Mining 3 Triad Center, Suite 350 Salt Lake City, UT 84180-1203

Dear Gentlemen:

Please find attached "Sundry Notices" for seven wells in Clay Basin. The workover in these wells was started on August 30, 1993 and completed on October 27, 1993.

If you have any questions, please call me at (801) 530-2006.

Sincerely,

Zoltan Bessenyei

Staff Petroleum Engineer

ZB:dc RE3007

Form 3160-5 (November 1983) (Formerly 9-331)	UNI D STATES DEPARTMENT OF THE INTER BUREAU OF LAND MANAGEMEN	1T	Expires August 31, 1985 5. LEASE DESIGNATION AND SERIAL SL - 045051-A 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	DRY NOTICES AND REPORTS form for proposals to drill or to deepen or plug Use "APPLICATION FOR PERMIT—" for such		ON THE OWNER OF THE PARTY.
1. OIL GAS	Con Storage Well		7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR	X OTHER Gas Storage Well		Clay Basin Unit 8. FARM OR LEASE NAME
Questar Pipeli	ne Company		Unit Well
3. ADDRESS OF OPERATOR D. O. Boy 11/50	, Salt Lake City, UT 84147		9. WHIL NO.
4. LOCATION OF WELL (Re See also space 17 belo At surface	eport location clearly and in accordance with an	y State requirements.•	10. FIELD AND POOL, OR WILDCAT Clay Basin
1120' FNL, 660	* FEL NE NE		11. SEC., T., B., M., OR BLK. AND SURVEY OF AREA NE NE 21-3N-24E
14. PERMIT NO.	15. ELEVATIONS (Show whether I	OF, RT, GR. etc.)	12. COUNTY OR PARISH; 13. STATE
43-009-15	626 KB 6493.50' GR 64	78 '	Daggett Utah
16.	Check Appropriate Box To Indicate	Nature of Notice, Report, or Ot	her Data
N	OTICE OF INTENTION TO:		NT REPORT OF:
nent to this work.) •	PULL OR ALTER CASING MULTIPLE COMPLETE ABANDON* CHANGE PLANS COMPLETED OPERATIONS (Clearly state all pertine well is directionally drilled, give subsurface loc the workover was to run cher	(Note: Report results of Completion or Recomplete nt details, and give pertinent dates, in ations and measured and true vertical	
nake continuou the following: 1. Set p 2. Circu 3. Pulle 4. Ran p 5. Rerun	s methanol injection possible	e during withdrawal. T	he program consisted of
	ed plug.		منظر در المنظم المن المنظم المنظم المنظ
This work	over was carried out in Sept	ember of 1993.	
			NUY () () 1993
			Minister (M CH, CAS & MARAC)
18. I hereby certify that t	he foregoing is true and correct		
SIGNED	TITLE St.	aff Petroleum Engineer	DATE November 17, 1993
(This space for Federa APPROVED BY CONDITIONS OF APF			DATE

*See Instructions on Reverse Side

OPERATOR CHANGE WORKSHEET

1. GLH 2. CDW 3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

X Operator Name Change

Merger

020N 020N 020N 020N 020N 030N 030N 030N	050E 050E 050E 050E 240E 240E 240E 240E	Salt La Phone: 1-(801) Unit: API NO 4304330192 4304330193 4304330244 4304330249 4300915629 4300915627 4300930018 4300930048	Pipeline Com x 11450 ke City, UT 84 x 530-2019 ENTITY NO 99990 99990 99990 1025 1025	LEASE TYPE Fee Fee Fee Fee State State	WELL TYPE GS GS GS GS GS GS	WELL STATUS A A A A A
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030N 030N	240E	4300930048			GS	A
030N		1	1025			IV.
	240E		1023	State	GS	A
030NI		4300930049	1025	State	GS	Α
NIOCO	240E	4300930055	1025	State	GS	A
030N	240E	4300930026	1025	Federal	GS	A
030N	240E	4300930031	1025	Federal	GS	A
030N	240E	4300930045	1025	Federal	GS	A
030N	240E	4300915626	1025	Federal	GS	A
030N	240E	4300930015	1025	Federal	GS	A
030N	240E	4300930016	1025	Federal	GS	A
030N	240E	4300930017	1025	Federal	GS	Α
030N	240E	4300930019	1025	Federal	GS	Α
030N	240E	4300930024	1025	Federal	GS	Α
030N N	240E	4300930024	1025	Federal	GS	
	030N 030N 030N 030N 030N 030N	030N 240E 030N 240E 030N 240E 030N 240E 030N 240E	030N 240E 4300930015 030N 240E 4300930016 030N 240E 4300930017 030N 240E 4300930019 030N 240E 4300930024 N wed from the FORMER opera	030N 240E 4300930015 1025 030N 240E 4300930016 1025 030N 240E 4300930017 1025 030N 240E 4300930019 1025 030N 240E 4300930024 1025	030N 240E 4300930015 1025 Federal 030N 240E 4300930016 1025 Federal 030N 240E 4300930017 1025 Federal 030N 240E 4300930019 1025 Federal 030N 240E 4300930024 1025 Federal N ved from the FORMER operator on: 1/13/200	030N 240E 4300930015 1025 Federal GS 030N 240E 4300930016 1025 Federal GS 030N 240E 4300930017 1025 Federal GS 030N 240E 4300930019 1025 Federal GS 030N 240E 4300930024 1025 Federal GS N ved from the FORMER operator on: 1/13/2004

YES Business Number:

3. The new company was checked on the Department of Commerce, Division of Corporations Database on:

Is the new operator registered in the State of Utah:

5. If NO, the operator was contacted contacted on:

649172-0142

1/14/2004

NEW ENTITY NUMBERS ASSIGNED FEBRUARY 2004

ACCT	OPERATOR NAME	API NUM.	Sec	Twnshp	Rng	WELL NAME	ENTITY	EFF DATE	REASON
N7560	Questar Pipeline Co	4300915629	20	030N	240E	Clay Basin Unit 5	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300915627	16	030N	240E	Clay Basin Unit 3	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930018	16	030N	240E	Clay Basin Unit 27-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930048	16	030N	240E	Clay Basin Unit 52-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930049	16	030N	240E	Clay Basin Unit 53-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930055	16	030N	240E	Clay Basin Unit 59-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930026	17	030N	240E	Clay Basin Unit 35-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930031	20	030N	240E	Clay Basin Unit 40-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930045	20	030N	240E	Clay Basin Unit 49-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300915626	21	030N	240E	Clay Basin Unit 2	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930015	21	030N	240E	Clay Basin 24-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930016	21	030N	240E	Clay Basin Unit 25-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930017	21	030N	240E	Clay Basin Unit 26-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930019	21	030N	240E	Clay Basin 30-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930024	21	030N	240E	Clay Basin Unit 33-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930030	21	030N	240E	Clay Basin Unit 39-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930044	21	030N	240E	Clay Basin Unit 48-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930046	21	030N	240E	Clay Basin Unit 50-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930047	21	030N	240E	Clay Basin Unit 51-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930054	21	030N	240E	Clay Basin Unit 58-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930056	21	030N	240E	Clay Basin Unit 60-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300915635	22	030N	240E	Clay Basin U 11 (RD Murphy	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930021	22	030N	240E	Clay Basin 28-S	1025 to 14040		Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930023	22	030N	240E	Clay Basin Unit 32-S	1025 to 14040		Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930027	22	030N	240E	Clay Basin Unit 36-S	1025 to 14040		Clay Basin Gas Storage

Note to file: These entity numbers were changed to compliment the operator correction from 3/7/98

3100 U-09712-A et al (U-942)

DECISION

Questar Pipeline Company

P.O. Box 11450

Salt Lake City, Utah 84147

Oil and Gas Leases :

U-09712-A et al

Corporate Name Change Recognized

Acceptable evidence has been received establishing that Mountain Fuel Resources, Inc. has changed their name to Questar Pipeline Company. Accordingly, the surviving company, Questar Pipeline Company, is recognized as holding all interests in Federal oil and gas leases which were held by Mountain Fuel Resources, Inc. We are changing our records with respect to the attached listing of oil and gas leases. If there are any other leases that will be affected, please contact this office.

/s/ M. Willie

Chief, Minerals ACTING Adjudication Section

Enclosure List of Leases

cc: All District Offices, Utah

MMS, AFS MMS, BRASS

920, Teresa Thompson Clay Basin Unit File

CSeare:s1 3/9/89:1642f

RECEIVED

JAN 2 8 2004

List of Leases

Overriding Royalties

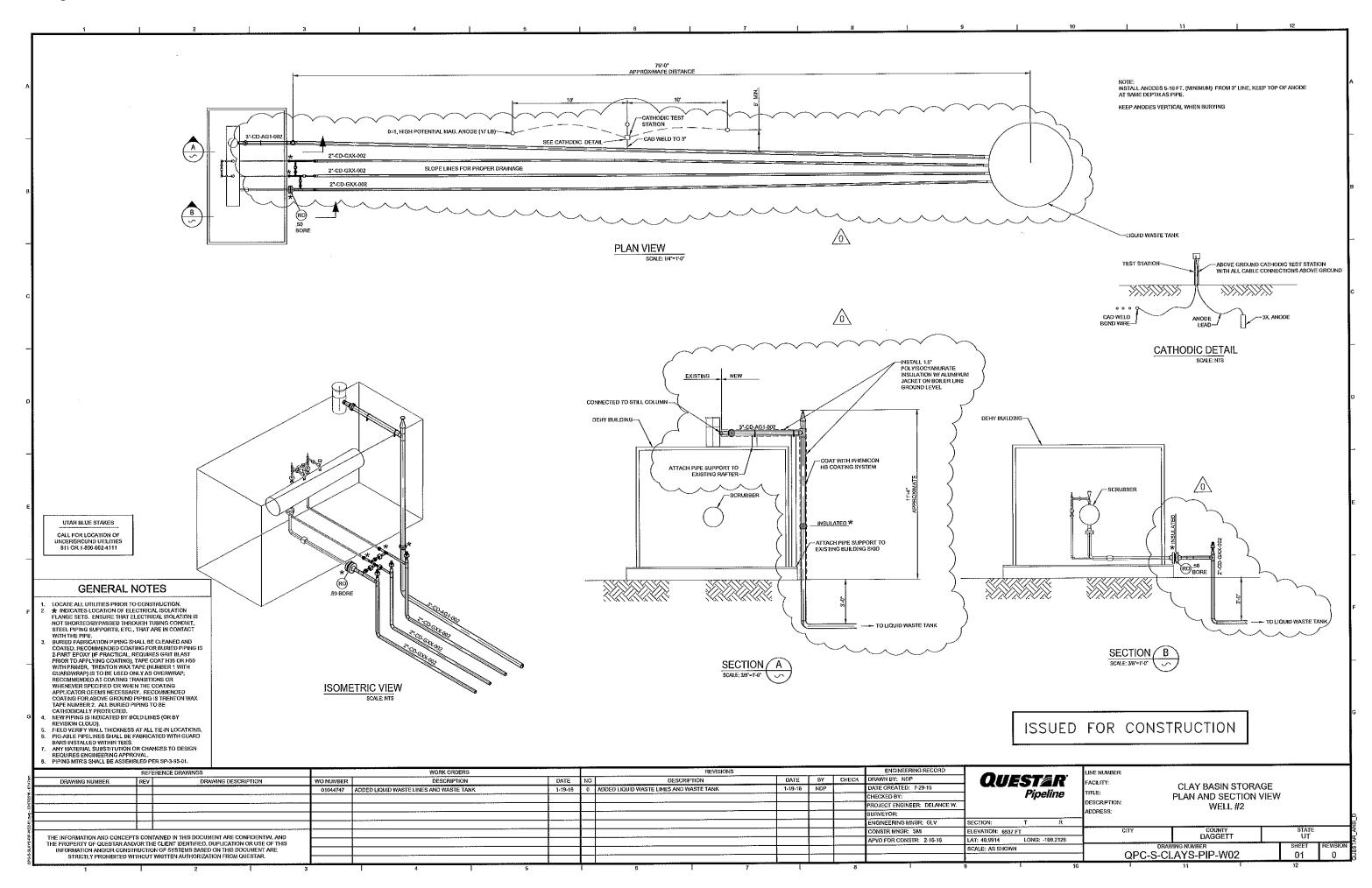
U-09712-A U-011246

Operating Rights

SL-045051-A & B SL-045053-A & B SL-062508 SL-0700555 SL-070555-A SL-045049-AB

Clay Basin Gas Storage Agreement Agreement No. 14-08-0001-16009 Sundry Number: 71408 API Well Number: 43009156260000 FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

	STATE OF UTAH		FORM 9				
	5.LEASE DESIGNATION AND SERIAL NUMBER: SL-045051A						
SUNDF	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:						
Do not use this form for pro- current bottom-hole depth, FOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME: CLAY BASIN GAS STORAGE						
1. TYPE OF WELL Gas Storage Well	8. WELL NAME and NUMBER: CLAY BASIN UNIT 2						
2. NAME OF OPERATOR: QUESTAR PIPELINE COMPAI	9. API NUMBER: 43009156260000						
3. ADDRESS OF OPERATOR: P.O.Box 45360, Salt Lake	PHONE NUMBER: 324-5061 Ext	9. FIELD and POOL or WILDCAT: CLAY BASIN					
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1120 FNL 0660 FEL			COUNTY: DAGGETT				
QTR/QTR, SECTION, TOWNSI Qtr/Qtr: NENE Section: 2	dian: S	STATE: UTAH					
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA							
TYPE OF SUBMISSION		TYPE OF ACTION					
	ACIDIZE	ALTER CASING	CASING REPAIR				
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME				
5/9/2016	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE				
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION				
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK				
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION				
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON				
	TUBING REPAIR	VENT OR FLARE	✓ WATER DISPOSAL				
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION				
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER: Install Dehy Tank				
12 DESCRIBE PROPOSED OR			<u>, </u>				
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Questar Pipeline Company proposes to install a Dehy Reflux Tank at the same location of the existing Dehy pond on Well #2 in Clay Basin. The tank is to be buried and is a double-wall metal reflux tank and will have a containment capacity of 80 bbl. Tank dimensions and drawings are attached. The work will include installing the buried tank, and installing three 2" diameter liquid dump lines and one 3" diameter reflux line and associated valves and fittings from the Dehy units at the well. Ground disturbance will be confined to previously disturbed areas as shown on attached photos. All work will occur within the existing Questar Pipeline leased area.							
NAME (PLEASE PRINT) Chris B. Balling	PHONE NUME 801 324-3619	BER TITLE Property Agent - ROW					
SIGNATURE N/A		DATE 4/28/2016					



Sundry Number: 71408 API Well Number: 43009156260000

